AIRLINK 101™

SkyIPCam 250W Wireless Network Camera

Model # AIC250W

User's Manual

Ver. 1B

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1. Introduction

Congratulations on your purchase of this SkyIPCam 250W. The IP Camera allows you to view images and live videos from internal and external networks. With a built-in CPU and Web Configuration Utility, the IP Camera is a standalone network device that delivers high quality videos at a low cost of ownership. The built-in Web Configuration Utility allows any computer that's connected to the network to remotely manage the IP Camera. Combined with the bundled Setup Wizard and IPView Pro software, managing and viewing multiple IP Cameras is simple and efficient.

Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for proper operation of the product.

Package Contents

Before you begin the installation, please check the items of your package:

- SkyIPCam 250W
- Camera Stand
- AC Power Adapter
- Quick Installation Guide
- Utility CD

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

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2. Getting Started

Note: *Before using the IP Camera, you'll need to perform the following tasks:*

1. Connect the IP Camera to your network.
2. Install the Setup Wizard.
3. Gather information about your local network address and wireless settings.
4. Configure the IP Camera using the Setup Wizard.

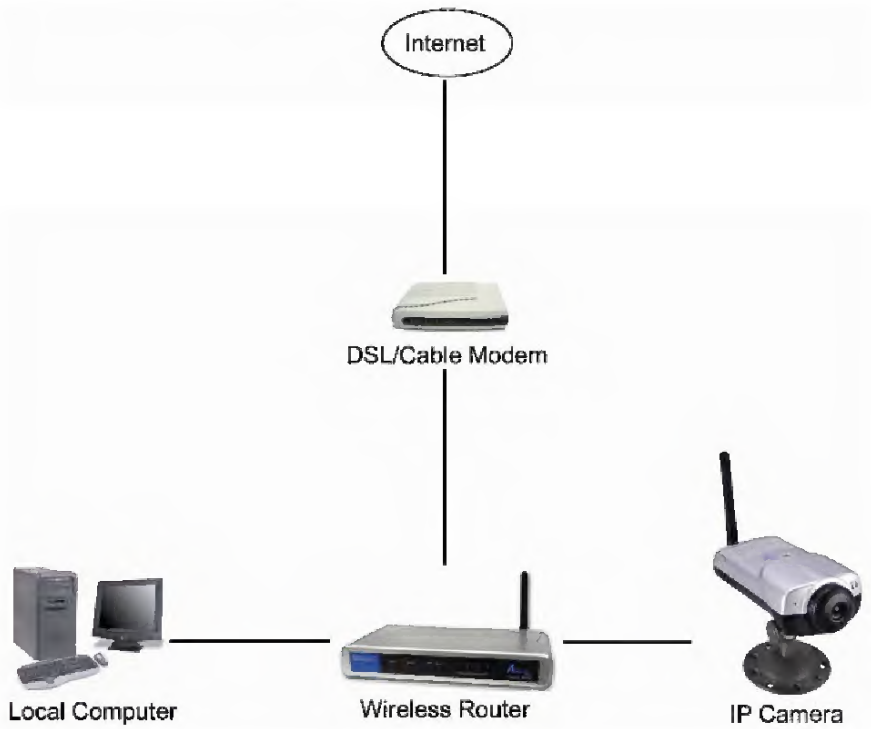
Please follow the steps in this Manual carefully to ensure proper setup of the IP Camera.

Caution: *The IP Camera is designed for indoor use only. Direct exposure to sunlight may cause permanent damage to the CMOS sensor. When operating in extremely bright environment, an iris lens or sun visor is recommended to protect the IP Camera.*

Step 1 Connect one end of a network cable to the IP Camera and connect the other end to one of the **LAN** ports of the router or switch *(See the diagram below).*

Step 2 Power on the IP Camera by connecting one end of the supplied power adapter to the power jack of the Camera and connecting the other end to an electrical outlet.

Step 3 Verify that all the lights on the Camera are lit. If not, verify that all the connections are secure and try again.



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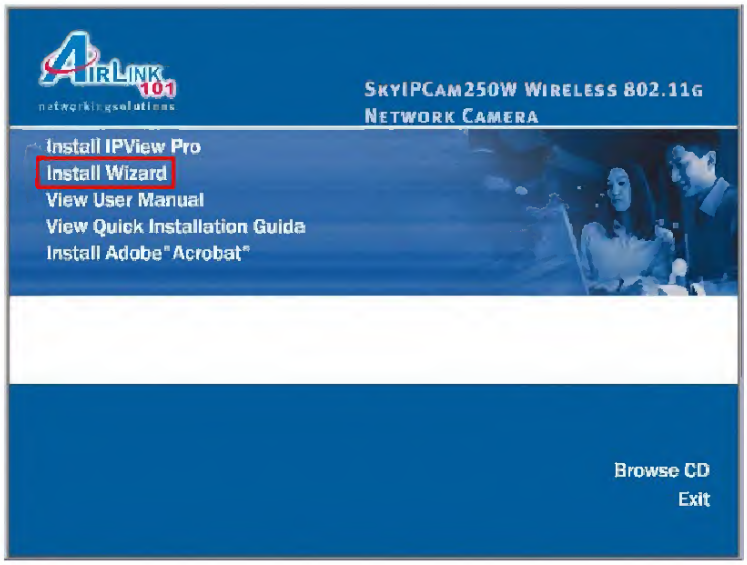
3. Installing the Setup Wizard

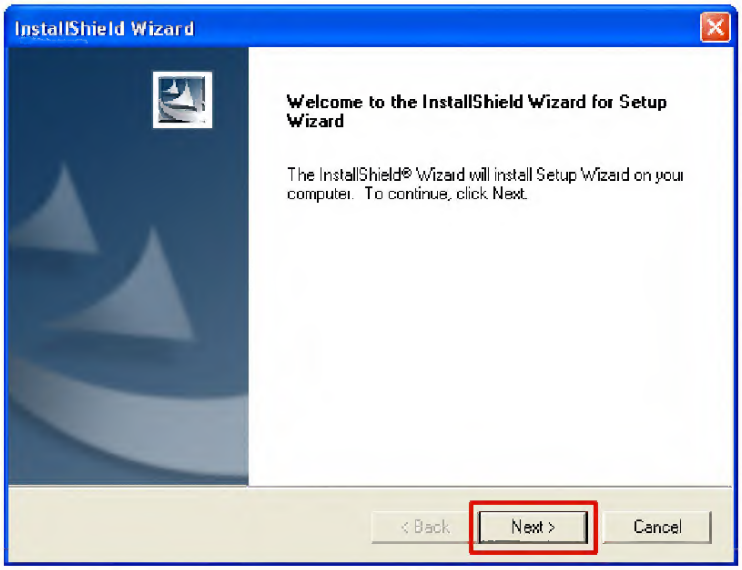
Step 1 Insert the provided CD and wait for the autorun screen to appear.

Step 2 Click on **Install Wizard**.



Note: *If the autorun screen does not appear automatically, go to* ***Start***, ***Run***, *type* ***D:\autorun.exe*** *(where* ***D*** *is the letter of your CD drive) and click* ***OK***.

Step 3 Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for Setup Wizard
The InstallShield® Wizard will install Setup Wizard on your computer. To continue, click Next.
< Back
Next >
Cancel

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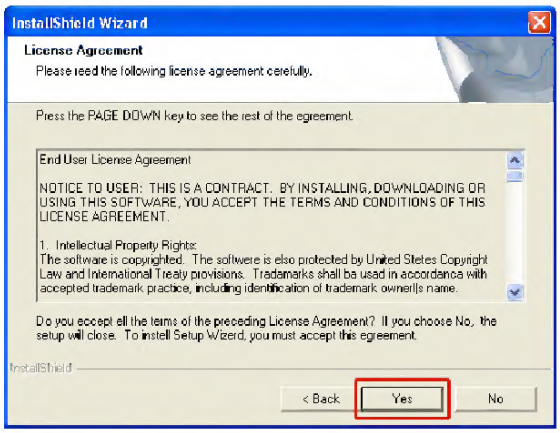
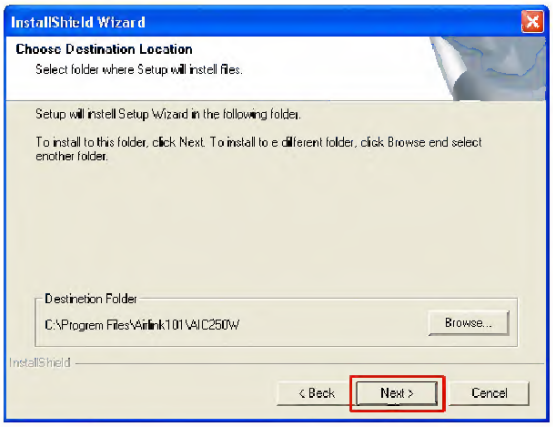
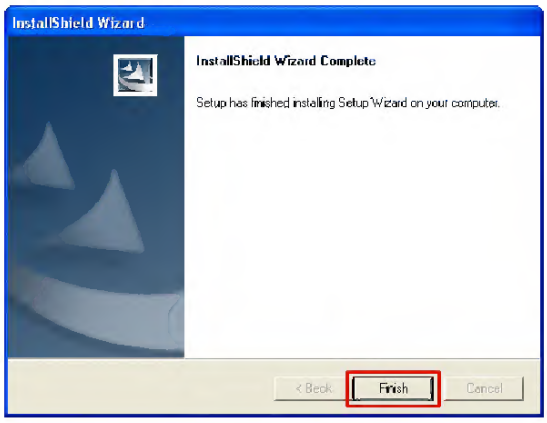
Step 4 Click **Yes** to accept the License Agreement.


InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.
1. Intellectual Property Rights:
The software is copyrighted. The software is also protected by United States Copyright Law and International Treaty provisions. Trademarks shall be used in accordance with accepted trademark practice, including identification of trademark owner's name.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Setup Wizard, you must accept this agreement.
InstallShield
< Back
Yes
No

Step 5 Click **Next** to accept the default Destination Folder.


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Setup Wizard in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Airlink101\AIC250W
Browse...
InstallShield
< Back
Next >
Cancel

Step 6 Click **Finish** to complete the installation.



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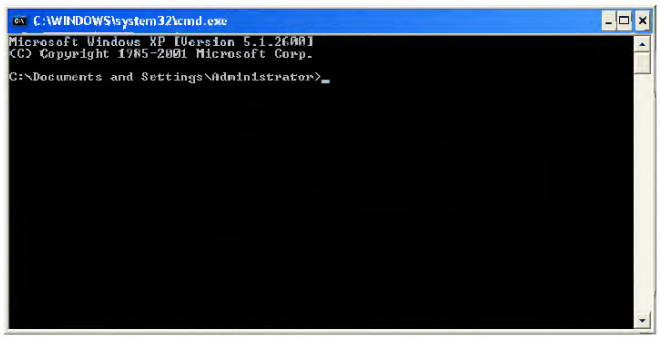
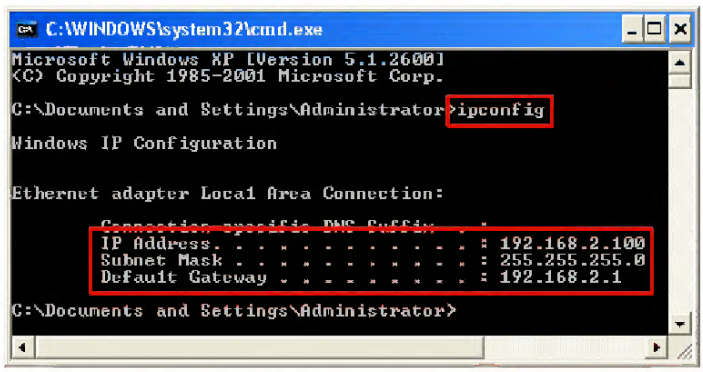
4. Gathering Information

Note: *Before using the Setup Wizard, you'll need to take note of your local network address and wireless settings.*

Step 1 Click on **Start**, **Run**, and type **command** (for Windows 95/98/ME) or **cmd** (for Windows 2000/XP) and click **OK**. The command prompt will appear.



Step 2 At the command prompt, type **ipconfig** and press **Enter**.


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
IP Address. . . . . : 192.168.2.100
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.2.1
C:\Documents and Settings\Administrator>

Step 3 Write down the information for the **IP Address**, **Subnet Mask**, and **Default Gateway**.

Step 4 Write down the following values for your wireless settings:

1. **Network ID (SSID)**
2. **Channel Number**
3. **Wireless Encryption Settings**

The IP Camera needs to use the same wireless settings in order for it to work properly. You may gather these information from the web configuration utility of your wireless router.

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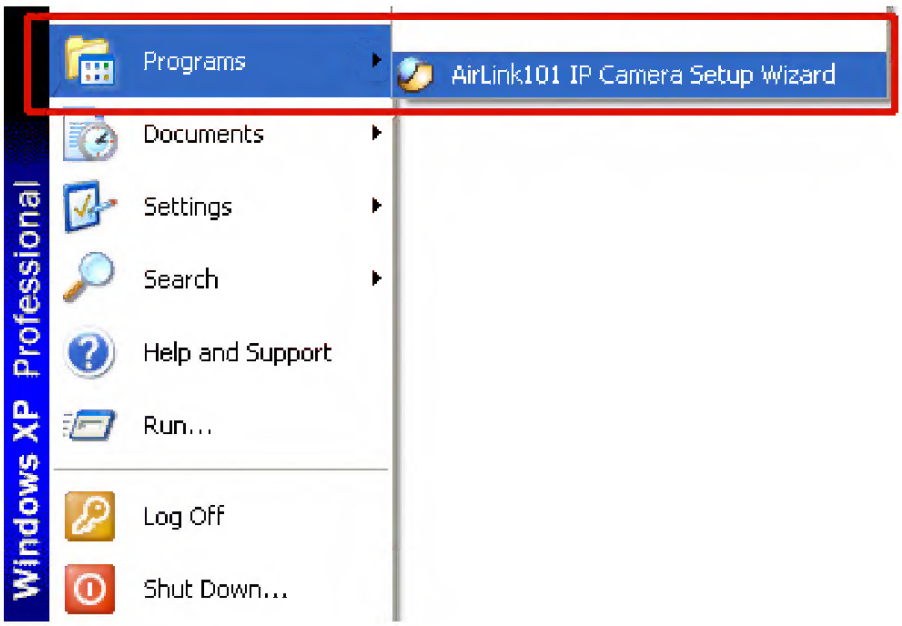
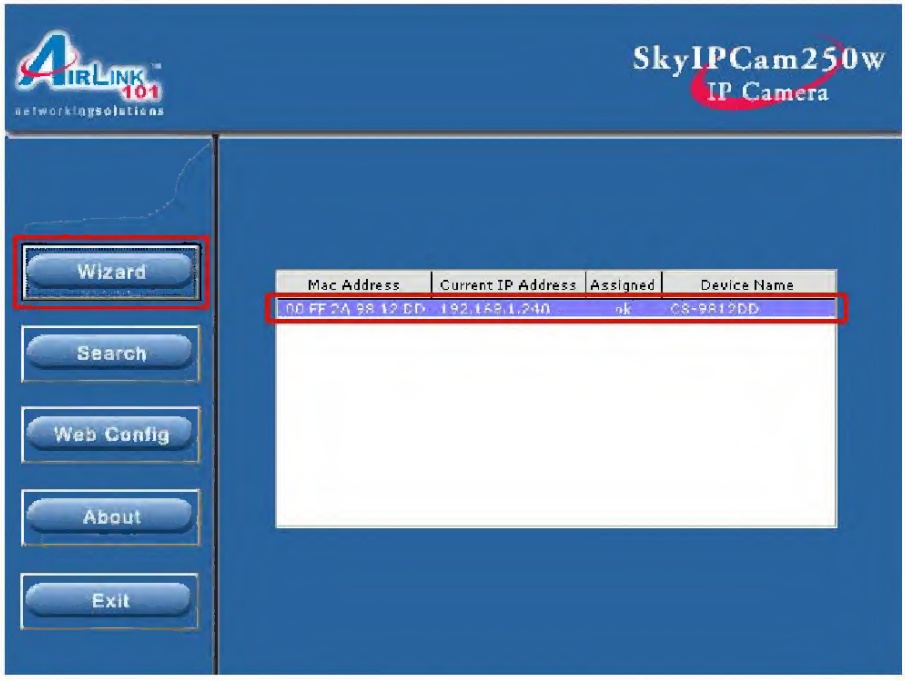
5. Using the Setup Wizard

Step 1 Go to **Start > (All) Programs > AirLink101 IP Camera Setup Wizard**.



Step 2 Select the IP Camera you want to configure from the list and click on the **Wizard** button.



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Step 3 If the Camera's default IP Address is on a different subnet, the following message will appear. Click **Yes** to continue.

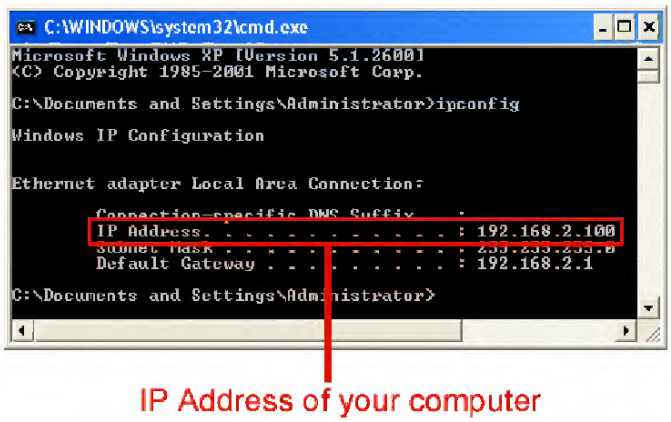
Setup Wizard
Your camera's IP Address may be invalid. Please change your camera's IP Address to match your network settings, or you will be unable to connect to the camera.
Would you like to change the IP Address now?
Yes
No

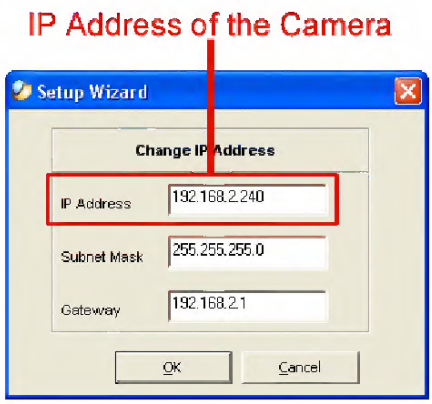
Note: *If you do not receive this message, skip to* ***Step 9****.*

Step 4 Enter **admin** for both the Admin ID and Password and click **OK**.

Step 5 In the **IP Address** field, change the first three numbers to match your local network address.

For example: If your computer's **IP Address** is **192.168.2.100**, change the first three numbers to **192.168.2** as well but leave the last number **240** alone.


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
IP Address. . . . . : 192.168.2.100
Default Gateway . . . . . : 192.168.2.1
C:\Documents and Settings\Administrator>
IP Address of your computer



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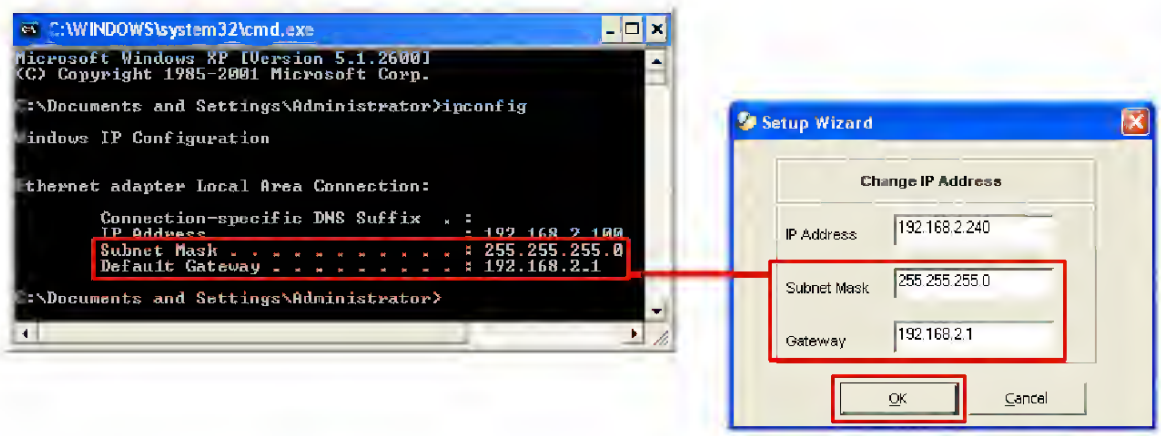
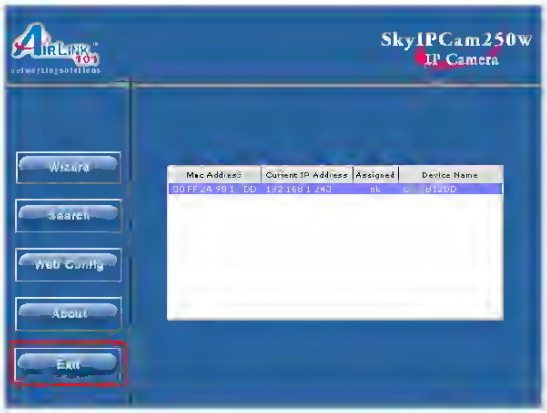
Step 6 Enter the **Subnet Mask** and **Gateway** fields with exactly the same values as you got from running **ipconfig**. Click **OK** to continue.



Step 7 After the Camera has restarted, click the **Exit** button to close the Setup Wizard.



Step 8 Start the Setup Wizard again and make sure the **Current IP Address** field displays the new IP Address. Select the Camera and click on the **Wizard** button.

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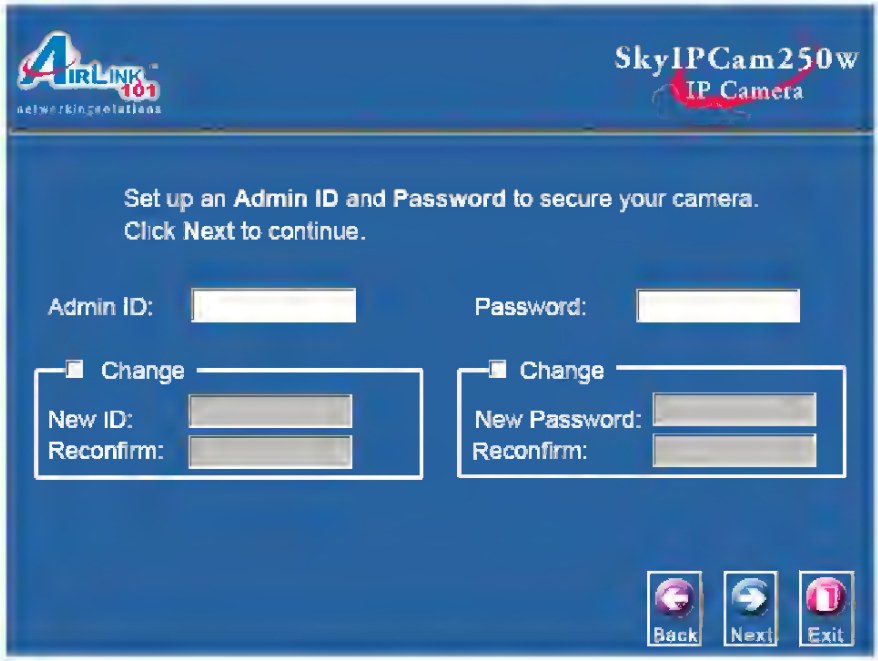
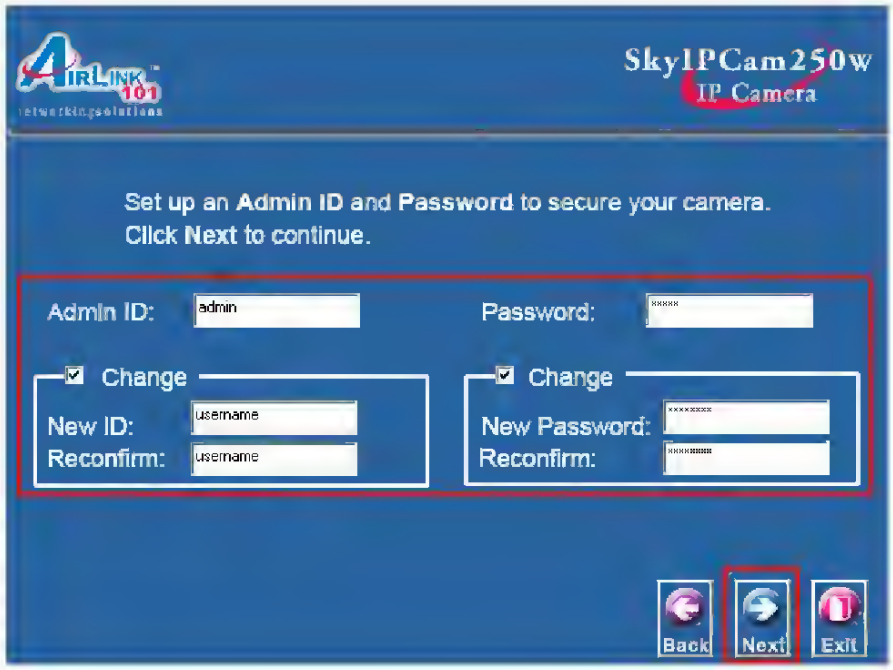
Step 9 The Setup Wizard appears asking you to change the Admin ID and Password. The default Admin ID and Password is **admin**.



Step 10 Enter **admin** for both the **Admin ID** and **Password** field, click on the **Change checkboxes** and enter the **New ID** and **New Password** and click **Next**.



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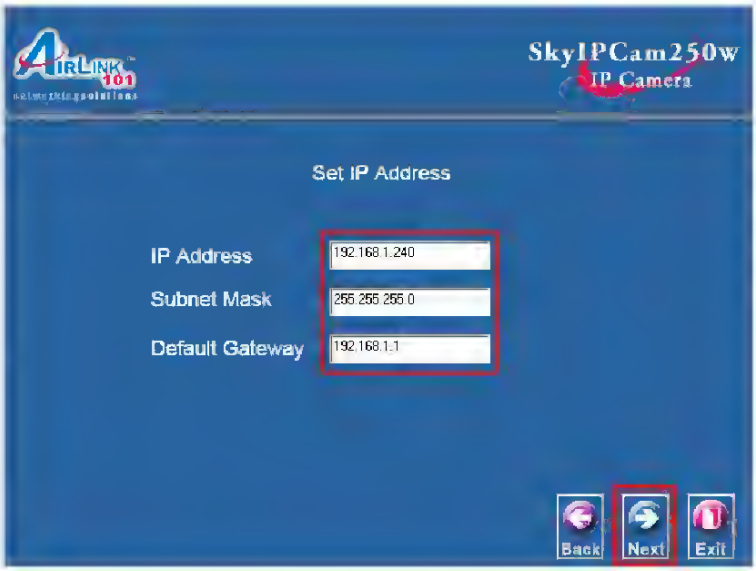
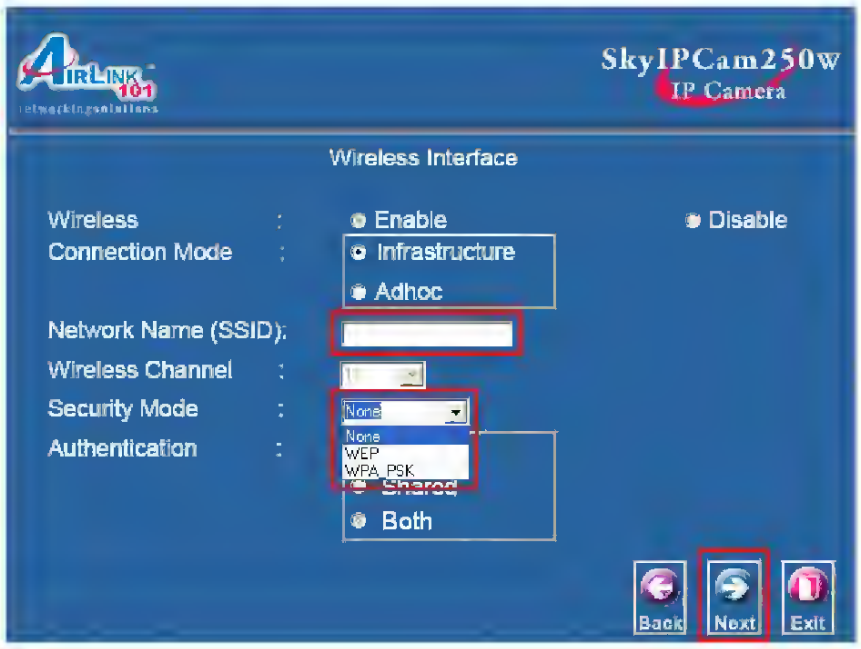
Step 11 If you need to change the Camera's IP Address because another network device is already using the same address, you can assign a new address here and click **Next**.



Step 12 Enter the **Network Name (SSID)** of your access point / wireless router in the **SSID** field and select the encryption setting of your wireless network (**None** / **WEP** / **WPA-PSK**) from the **Security Mode** drop-down menu and click **Next**.



Note: *If you do not have wireless encryption enabled, you may skip to* ***Step 14****.*

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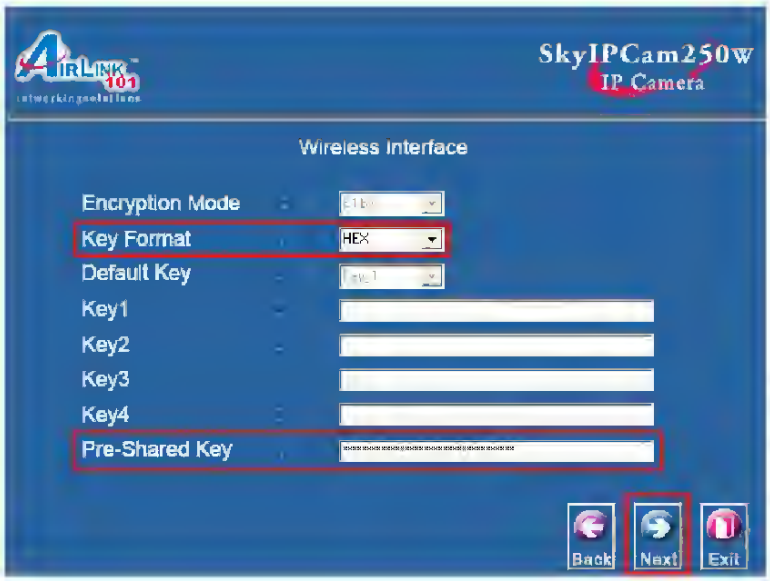
WEP

Step 13a Select the same Encryption Mode (**64 Bit / 128 Bit**), Key Format (**HEX / ASCII**), Default Key (**Key_1 ~ Key_4**), and enter the same WEP keys (**passwords**) as your wireless network in the appropriate field and click **Next**. Skip to **Step 15**.

WPA-PSK

Step 13b Select the same Key Format (**HEX / ASCII**) and enter the same Pre-Shared Key (**passphrase**) as your wireless network and click **Next**. Skip to **Step 15**.



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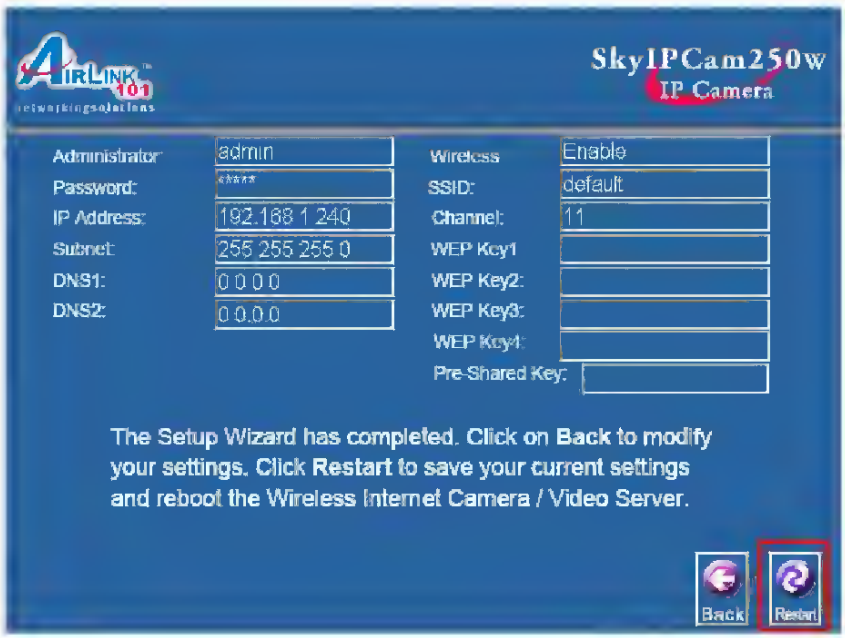
Step 14 Click **Next**.

Step 15 Verify that all the fields are correct and click **Restart** to save the settings and reboot the Camera.



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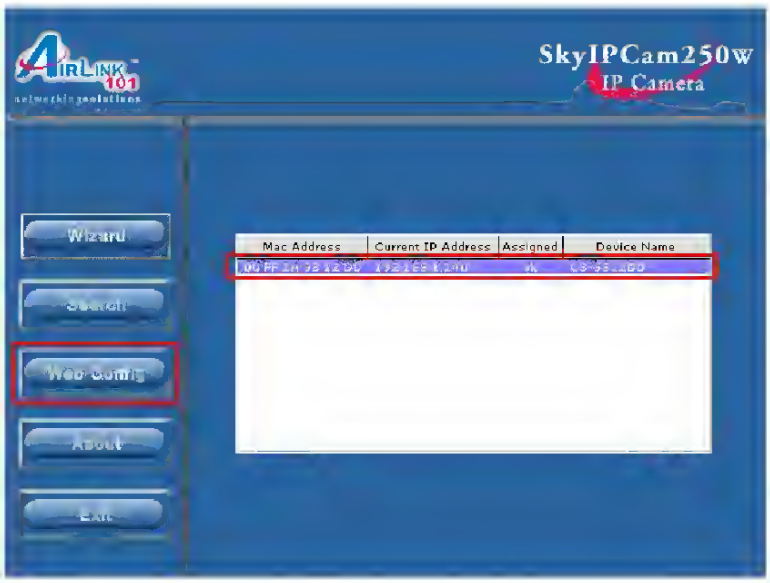
6. Viewing Images

Note: *The following steps describe how to view images from within the same local area network as the IP Camera. To view images from an external network such as the Internet, please refer to* ***Section 9*** *of this manual for further instructions.*

Step 1 At the Setup Wizard, select the desired camera from the list and click on the **Web Config** button.



Step 2 The default page appears. You can view live video by selecting either the **ActiveX Mode** (Internet Explorer) or the **Java Mode** (Internet Explorer and Netscape).

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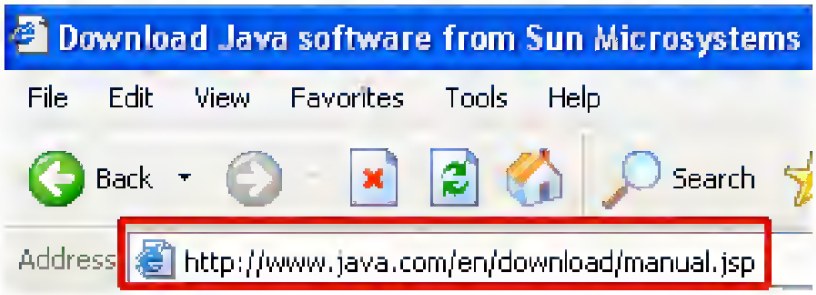
Step 3 Turn the Camera's lens clockwise or counter-clockwise to focus.

Note: *ActiveX and/or Java Applet must be installed and enabled on your Web Browser (Internet Explorer or Netscape) before you can view the live videos.*

Step 4 If you need to install Java Virtual Machine on your computer, do not follow the on-screen XP instructions. Rather, go to http://www.java.com/en/download/manual.jsp and follow the instructions on that web site to download and install the required Java software.



The IP Camera is ready for use now.

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7. Configuring Wireless Settings

7.1 Infrastructure Mode

Note: *The following instructions describe how to setup the IP Camera in wireless Infrastructure mode. Use this mode if you are connecting wirelessly through a wireless router / access point. You should use a wired connection to configure the following wireless settings before unplugging the network cable from the IP Camera.*

Step 1 At the Setup Wizard, select the desired Camera from the list and click on the **Web Config** button.

Step 2 Click on **System Administration** to enter the Web Configuration Utility.

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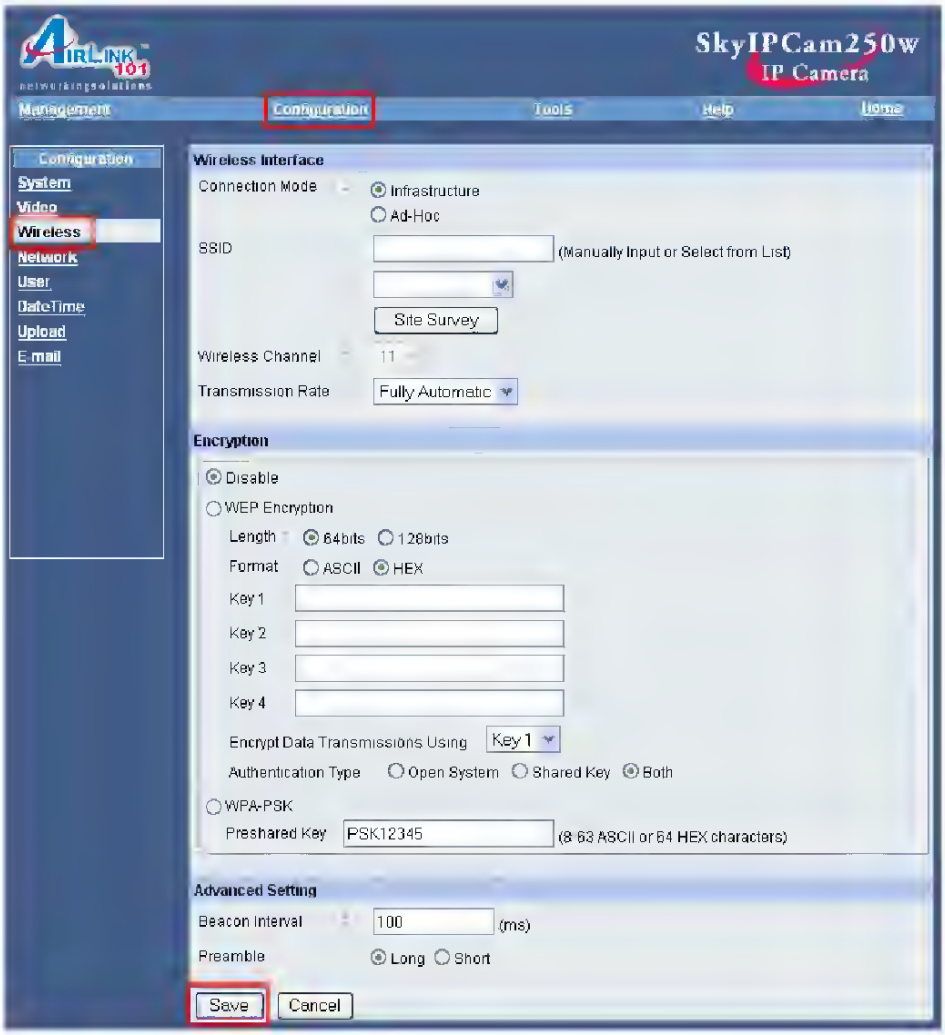
Step 3 Enter **admin** for both the User name and Password and click **OK**.

Step 4 Click on **Configuration** and then **Wireless**.



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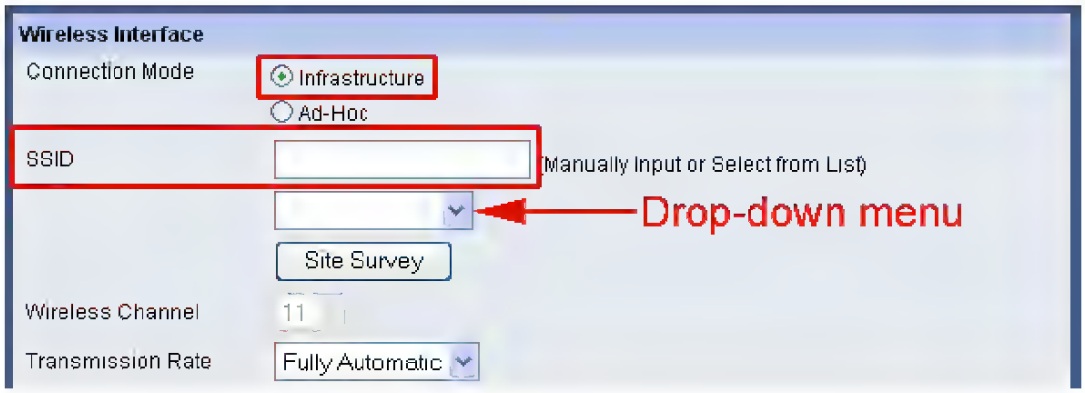
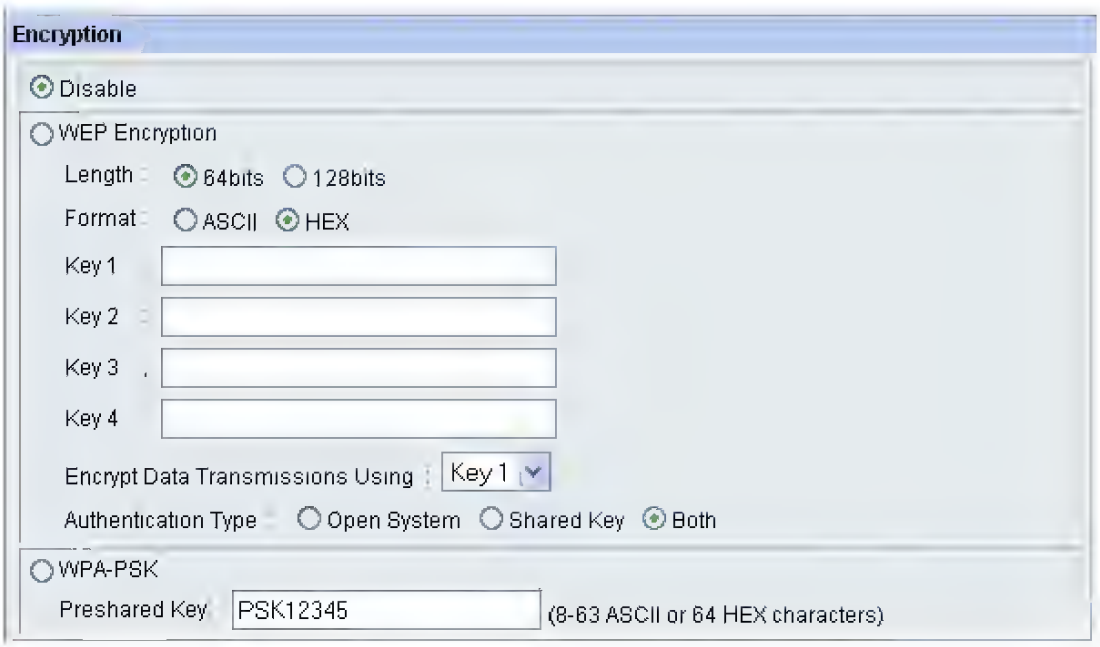
Step 5 If you are connecting to a wireless router, verify that the Camera is set to **Infrastructure** mode.

Enter the **SSID** (Network Name) of your wireless router in the **SSID field**, or use the Drop-down menu directly below the **SSID field** to choose your wireless router.



Note: *You can also click on the **Site Survey** button to view all nearby wireless networks. If you do not see your wireless router, click on **Refresh** and/or reset your wireless router.*

Step 6 If you have enabled encryption on your wireless router, you will need to set the identical encryption settings on the Camera. Enter the appropriate encryption settings. For more information regarding how to set the encryption settings, please refer to **Section 8.2.3 Configuration – Wireless**.



Step 7 Click **Save** to apply the new settings.

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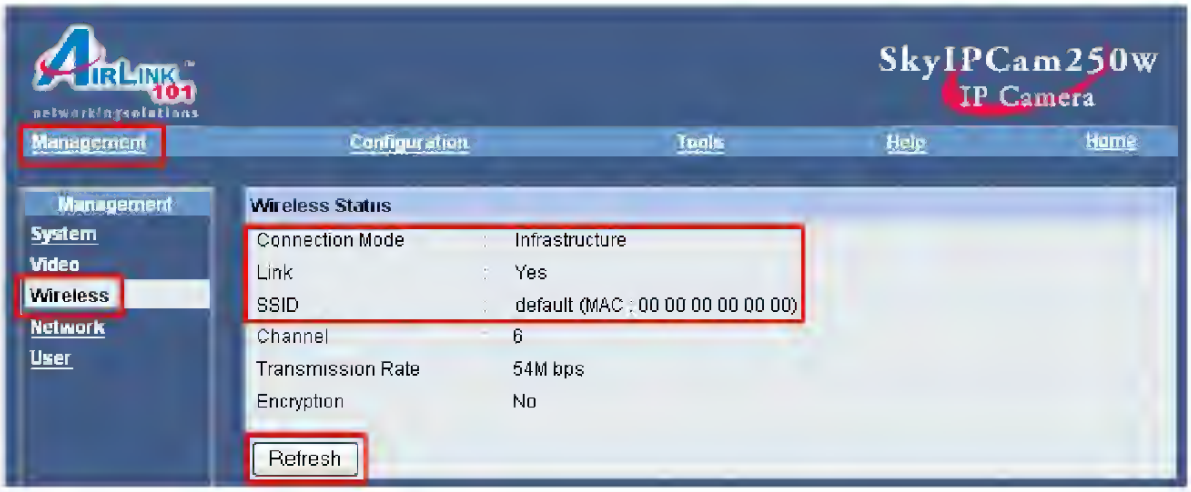
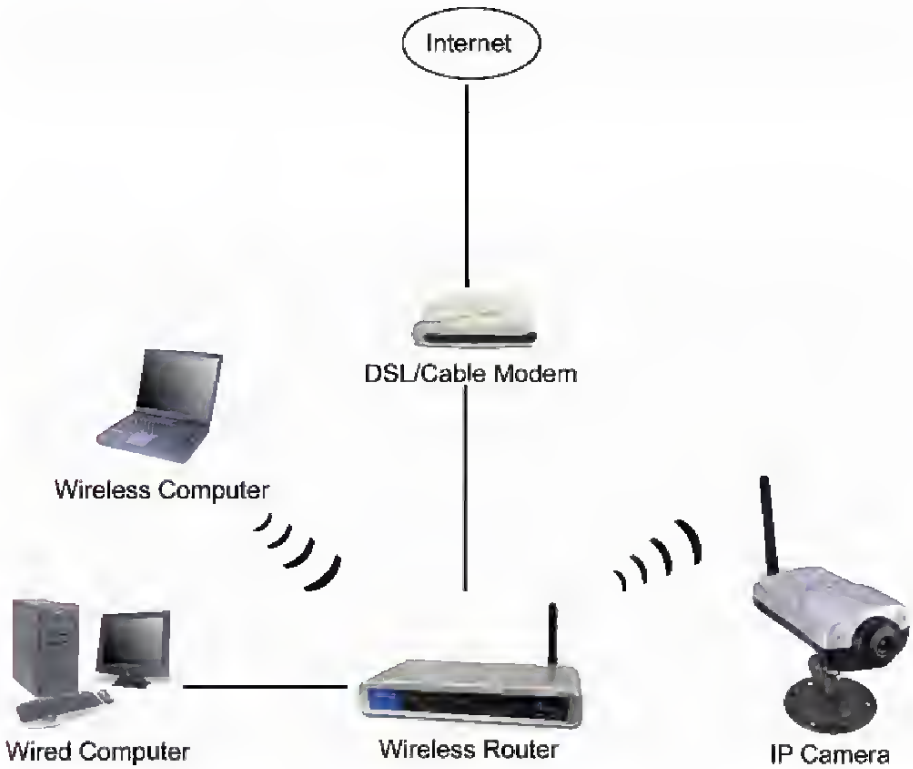
Step 8 Click on **Management** and go to **Wireless**. Verify that the **Connection Mode** is **Infrastructure** and the **Link** is **Yes**. Also verify that the SSID matches the SSID of your wireless router.



***Note:** If the **Link** does not say **Yes**, click on the **Refresh** button until it displays **Yes**.*

Step 9 Once the Link Status is **Yes**, you may unplug the Camera's network cable from the wireless router and place the Camera at the desired location.



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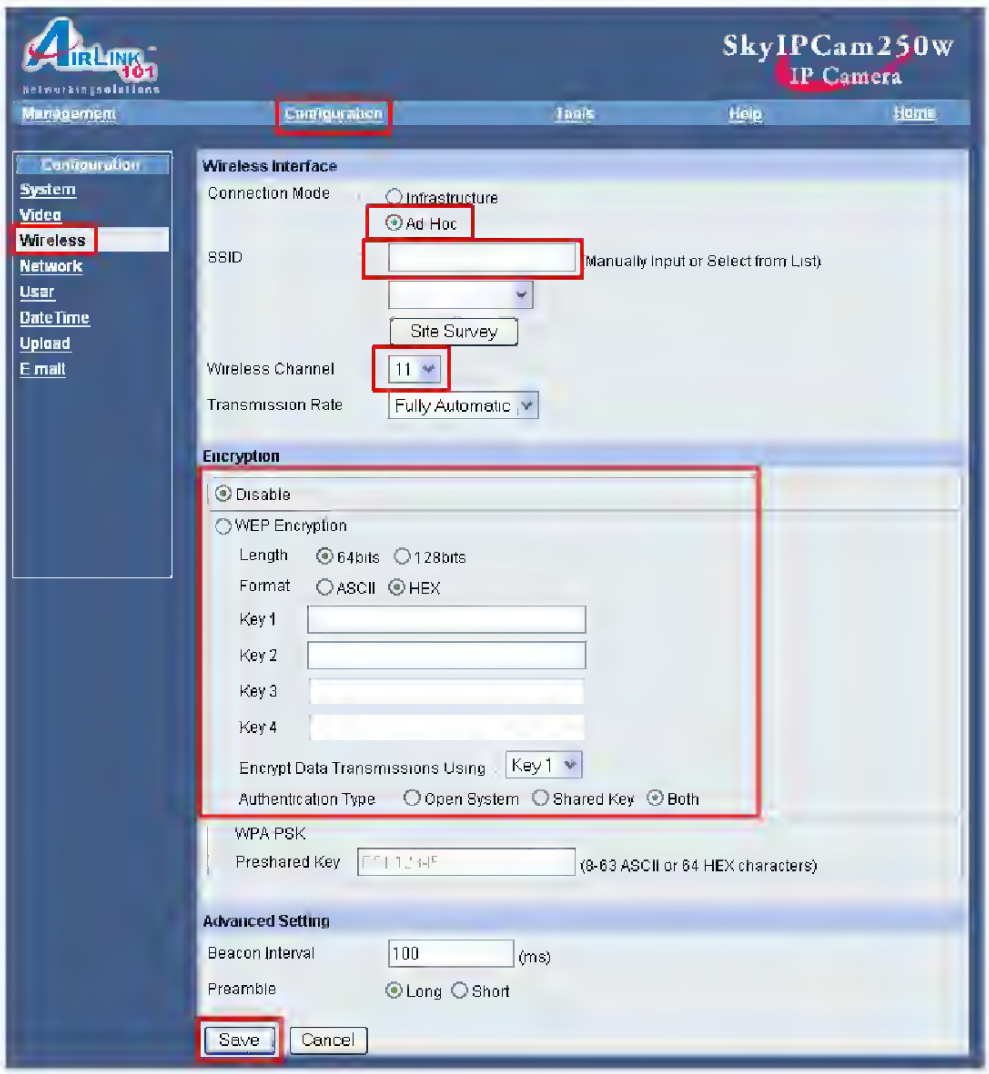
7.2 Ad-Hoc Mode

If you want to bypass your wireless router / access point and connect directly to the Wireless Camera, follow the steps below. You should use a wired connection to configure the following wireless settings before unplugging the network cable from the Camera

Caution: *Your wireless computer may lose Internet connection if you set it to Ad-Hoc mode.*

Step 1 Go to **Configuration**, **Wireless**, and set the **Connection Mode** to **Ad-Hoc**.



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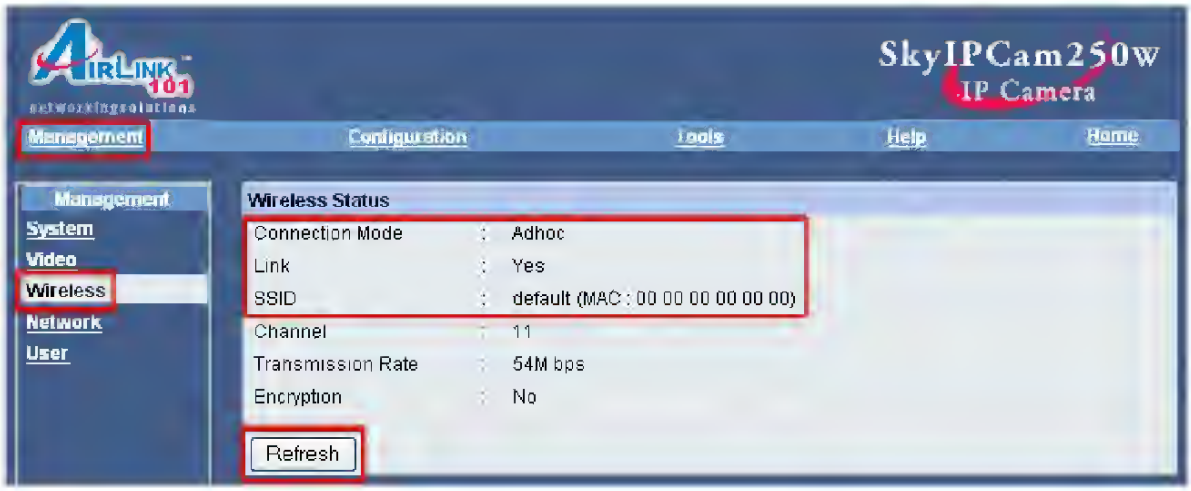
Step 2 Rename the **SSID** of the Camera or keep it as **default**.

Step 3 Set the desired **Wireless Channel**.

Step 4 If you have enabled encryption on your wireless computer, you will need to set the identical encryption settings on the Camera. Enter the appropriate encryption settings. For more information regarding how to set the encryption settings, please refer to **Section 8.2.3 Configuration – Wireless**.

Step 5 Click **Save**.

Step 6 Click on **Management** and go to **Wireless**. Verify that the **Connection Mode** is **Ad-Hoc** and the **Link** is **Yes**. Also verify that the SSID matches the SSID you have set.



Note: If the **Link** does not say **Yes**, click on the **Refresh** button until it displays **Yes**.

Step 7 Manually change the TCP/IP setting of your wireless computer to use a static IP address and assign the appropriate **IP Address**, **Subnet Mask**, and **Default Gateway** according to your network. If you do not know how to do this, it is recommended that you do not connect directly to the Camera, but connect through the wireless router instead.

Step 8 Configure your computer's wireless adapter to **Ad-Hoc** mode, using the same **SSID** and **Channel** number as the Camera.

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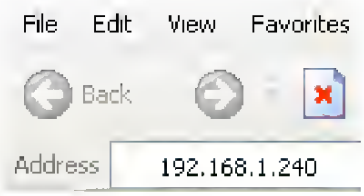
8. Web Configuration Utility

The built-in Web Configuration Utility allows you to remotely manage the IP Camera with the ease and convenience of your Web Browser (Internet Explorer or Netscape).

Step 1 Open your Web Browser (Internet Explorer or Netscape), enter the default IP Address of the Camera **192.168.1.240** in the Address Bar and press **Enter**.



Note: *If you have changed the IP Address of the Camera as described in* ***Section 5****, enter the Camera's new IP Address instead of the default.*

Step 2 Click on **System Administration** to enter the Web Configuration Utility.

Step 3 Enter **admin** for both the **User name** and **Password** or enter the new User name and Password that you have previously specified and click **OK**.

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The **Management** page appears by default. You can select different pages at the **Top Menu Bar**, while **Sub-menus** for each page are available at the left-hand side.

8.1.1 Management – System

The **Management – System** page displays the **Device** and **Ethernet Status** of the Camera. You can click on **Refresh** to update the page.

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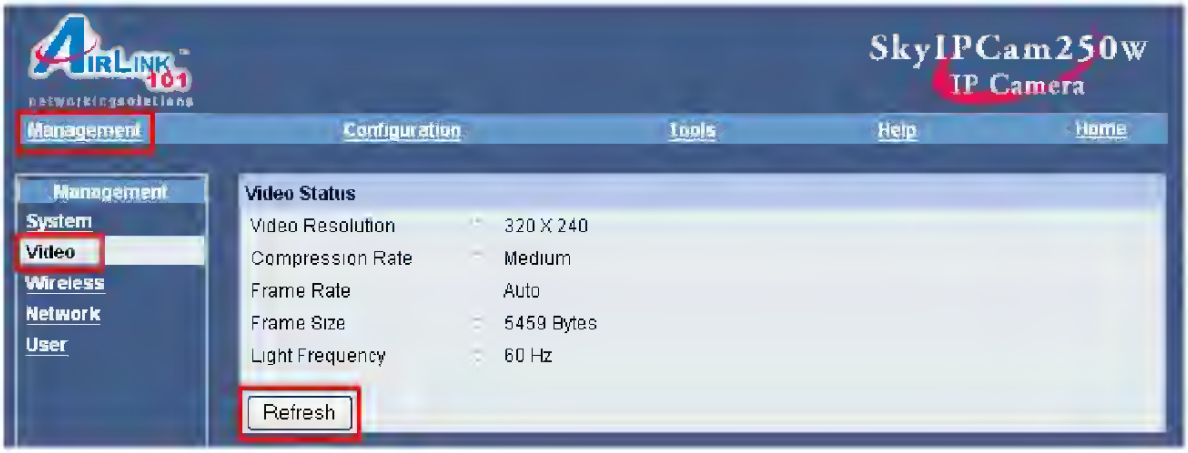
8.1.2 Management – Video

The **Management – Video** page displays the **Video Status** of the Camera. You can click on **Refresh** to update the page.



8.1.3 Management – Wireless

The **Management – Wireless** page displays the **Wireless Status** of the Camera. You can click on **Refresh** to update the page.

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8.1.4 Management – Network

The **Management – Network** page displays the **Network Status** of the Camera. You can click on **Refresh** to update the page.

8.1.5 Management – User

The **Management – User** page displays all the **Active Users** who are currently connected to the Camera. You can click on **Refresh** to update the page.

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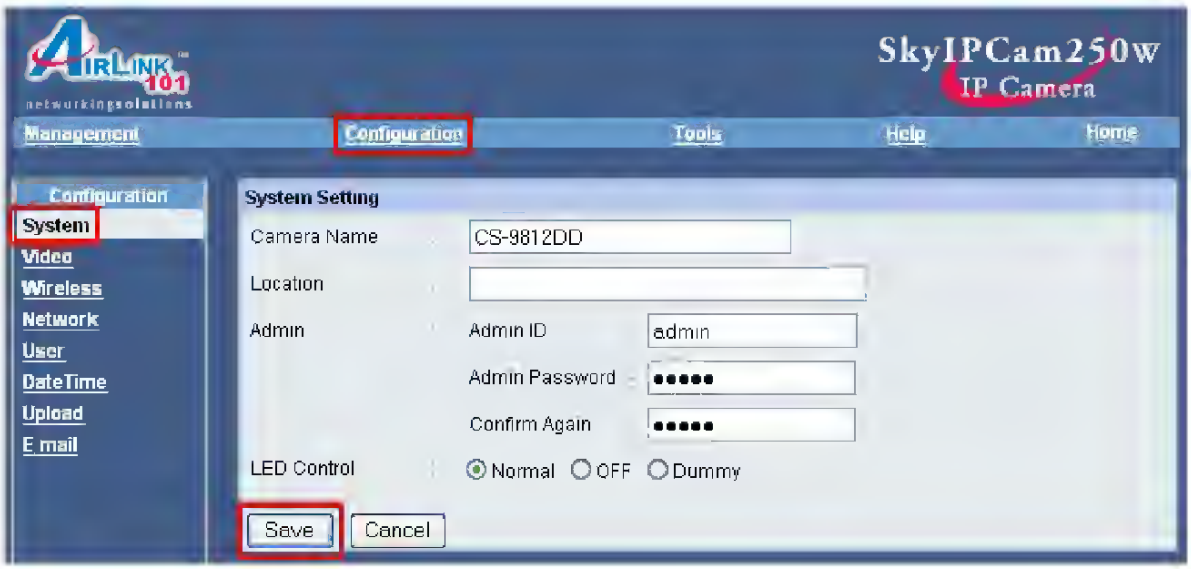
8.2.1 Configuration – System

The **Configuration – System** page allows you to configure the **System Settings** of the Camera.



Camera Name: You can assign a user-friendly name for the camera.

Location: Enter the location of the camera.

Admin ID: Specify a username for the Admin account.

Admin Password: Specify a password for the Admin account.

LED Control:

Normal: Both **Pwr** and **Lnk** LEDs are ON. When LAN activity is present, **Lnk** will flash.

OFF: Both **Pwr** and **Lnk** LEDs are OFF.

Dummy: Both **Pwr** and **Lnk** LEDs are ON with **Lnk** flashing randomly.

Click **Save** to apply the new settings.

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8.2.2 Configuration – Video

The **Configuration – Video** page allows you to configure the **Video Settings** of the Camera.

Video Resolution: Select the desired video resolution.

Compression Rate: Select the desired video compression rate. Higher compression rate yields smaller file size but with less video quality and vice versa.

Frame Rate: Select the desired frame rate.

Brightness Control: Adjust the brightness level.

Contrast Control: Adjust the contrast level.

Saturation Control: Adjust the saturation level.

Light Frequency: Adjust the light frequency.

Mirror: Select to apply horizontal or vertical mirroring.

Anti-Flicker: Check to enable anti-flicker.

Click **Save** to apply the new settings.

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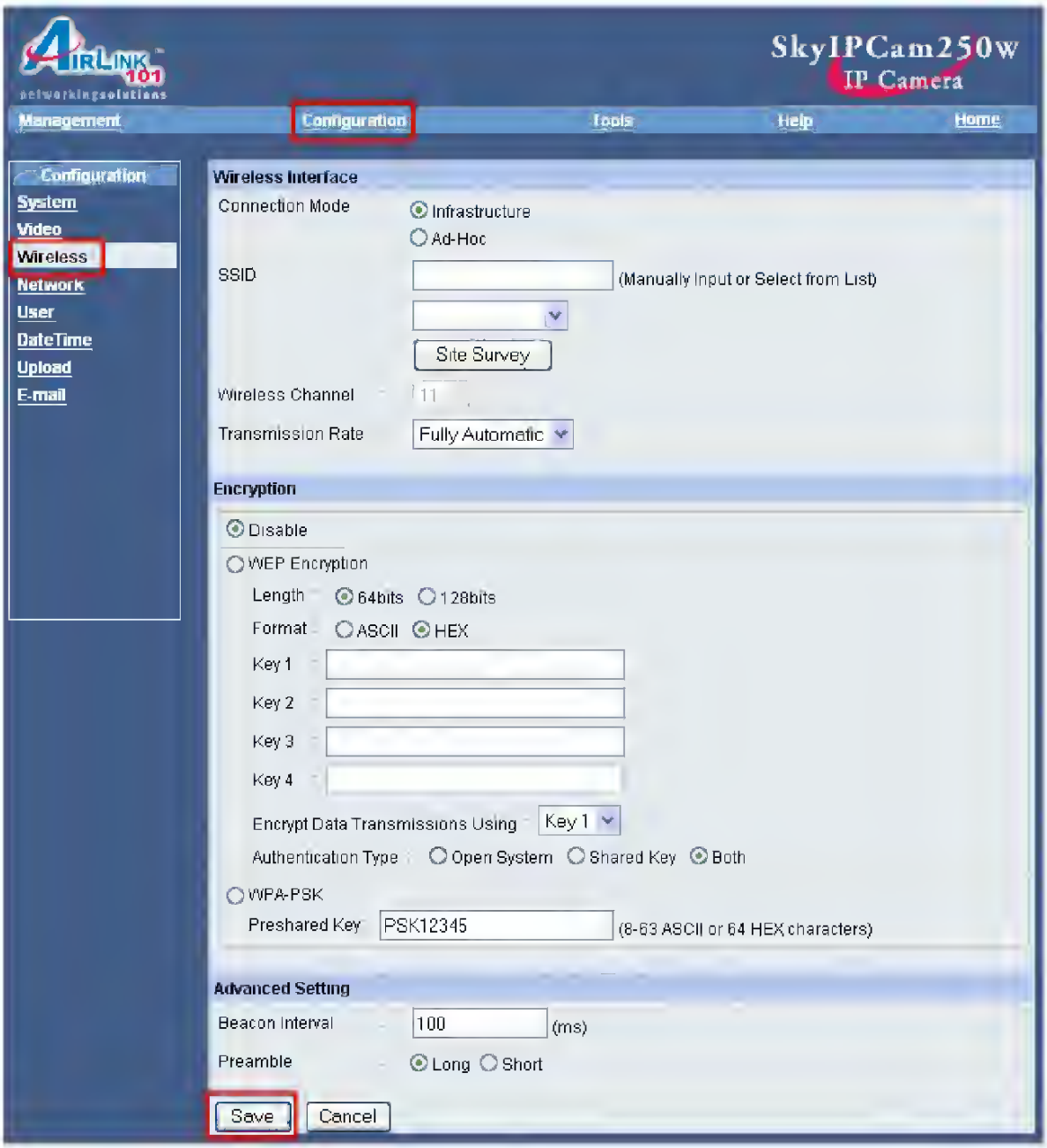
8.2.3 Configuration – Wireless

The **Configuration – Wireless** page allows you to configure the **Wireless Settings** of the Camera.



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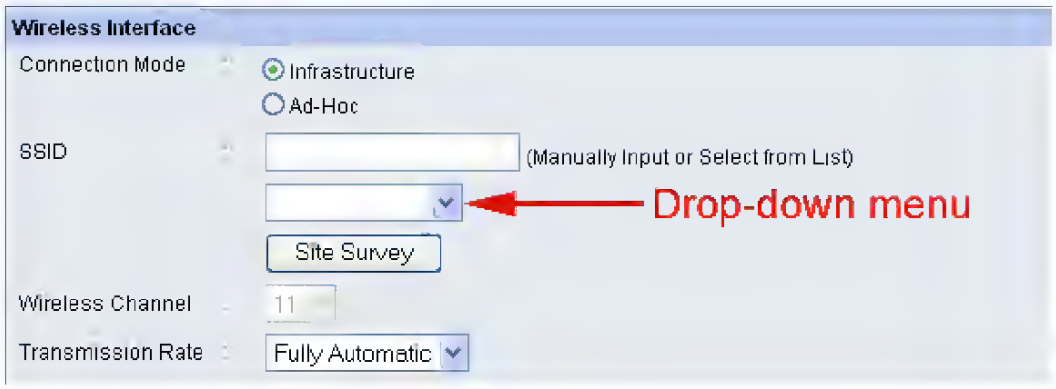
Wireless Interface:



Connection Mode: Select **Infrastructure** if you're connecting wirelessly through a wireless router / access point. Select **Ad-Hoc** if you don't have a wireless router / access point and wish to use a wireless peer-to-peer connection with the camera.

SSID: Manually enter the SSID of your wireless router / access point or use the drop-down menu to select your wireless router / access point.

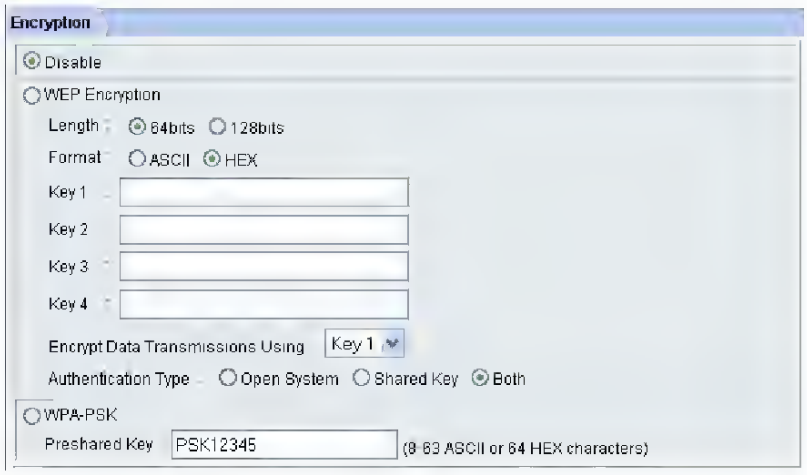
Site Survey Button: Click on the Site Survey Button to view all nearby wireless networks.

Wireless Channel: Select the desired wireless channel. (Not available in Infrastructure mode).

Transmission Rate: Select the desired transmission rate.

Click **Save** to apply the new settings.

Encryption:



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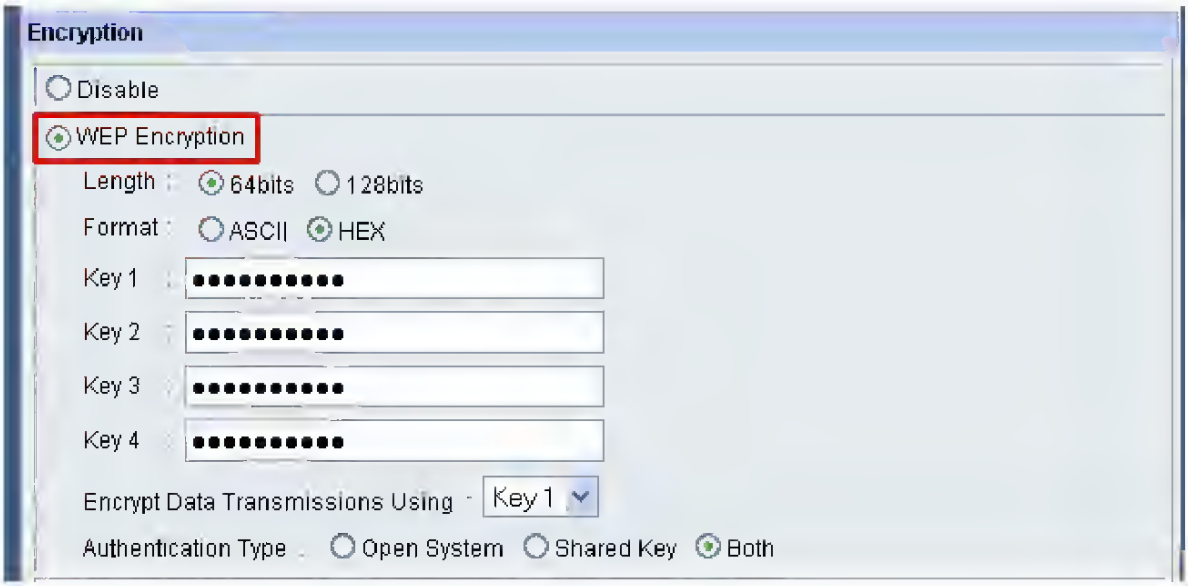
WEP Encryption



To enable WEP encryption, select **WEP Encryption**.

Length: Choose between **64bits** and **128bits** encryption.

Format: Select either **ASCII** (all letters and numbers) or **HEX** (0-9, A-F)

Key 1 – 4: Manually assign a passphrase for each key. If you selected **64 bits** encryption, enter **10** HEX characters (0-F) for each key. If you selected **128 bits** encryption, enter **26** HEX characters (0-F) for each key. For each key select either Open System or Shared Key as your authentication.

Encrypt Data Transmissions Using: Select one of the keys to be the Active Key.

Authentication Type: Choose from **Open System**, **Shared Key**, or **Both**.

Click **Save** to apply the new settings.

Note: *The IP Camera needs to use the identical encryption settings as the wireless router / access point in order for it to work properly.*

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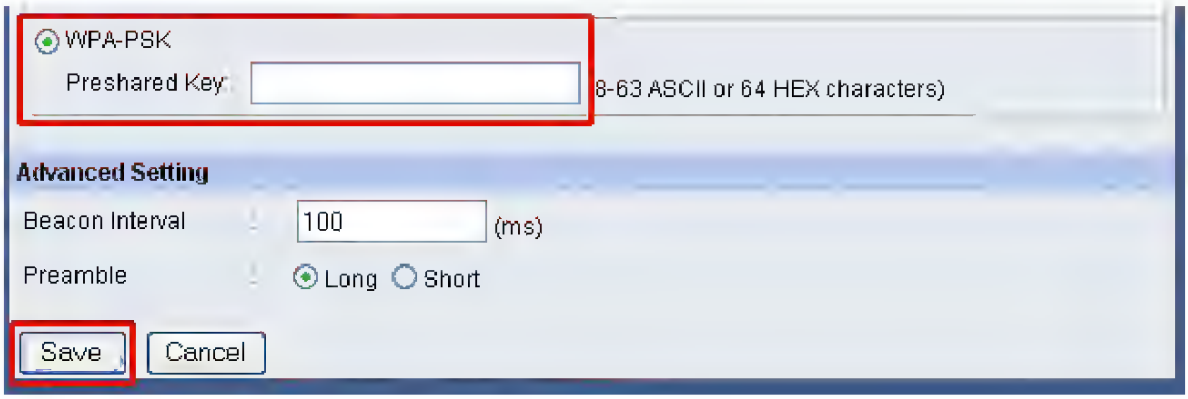
WPA-PSK Encryption



To enable WPA-PSK encryption, select **WPA-PSK**.

Preshared Key: Enter a password for the Preshared Key. (8-63 ASCII or 64 HEX characters).

Click **Save** to apply the new settings.

Note: *The IP Camera needs to use the identical encryption settings as the wireless router / access point in order for it to work properly.*

Advanced Setting:

Beacon Interval: Enter the desired beacon interval.

Preamble: Select **long** or **short** preamble.

Click **Save** to apply the new settings.

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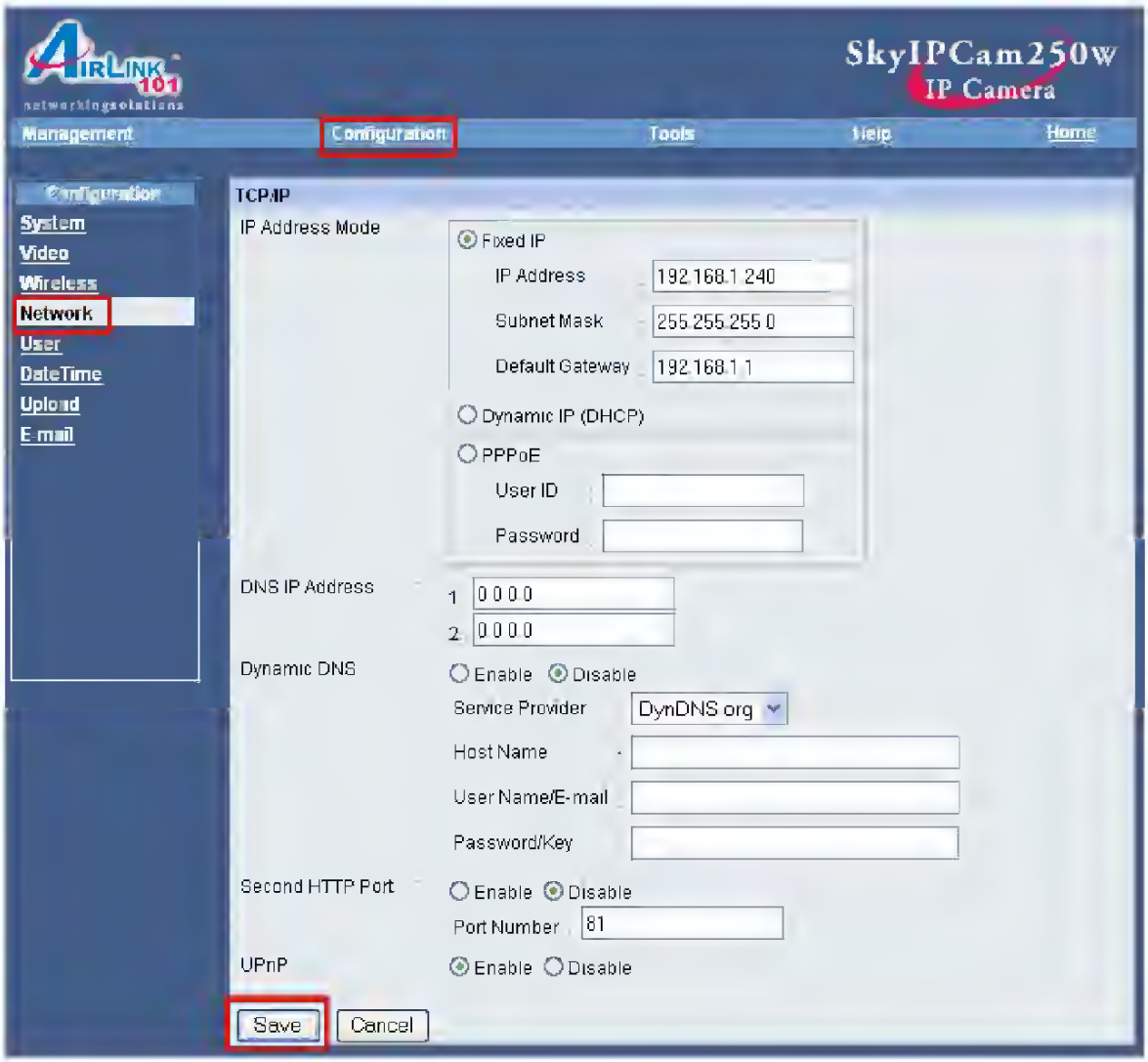
8.2.4 Configuration – Network

The **Configuration – Network** page allows you to configure the **Network (TCP/IP) Settings** of the Camera.



IP Address Mode:

Fixed IP: Assign a static IP Address for the Camera **(recommended)**
Dynamic IP: Receives a dynamically assigned IP Address from the router of DHCP server.
PPPoE: If the camera is directly connected to a DSL modem, enter your DSL username and password here and the Camera will automatically receive an IP address from your ISP.

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DNS IP Address: Enter your ISP's DNS IP Address here if you want to host videos over the Internet.

Dynamic DNS: Select to enable or disable Dynamic DNS (DDNS). You must register with one of the Service Providers listed in the drop-down menu first then enter your account information in the applicable fields.

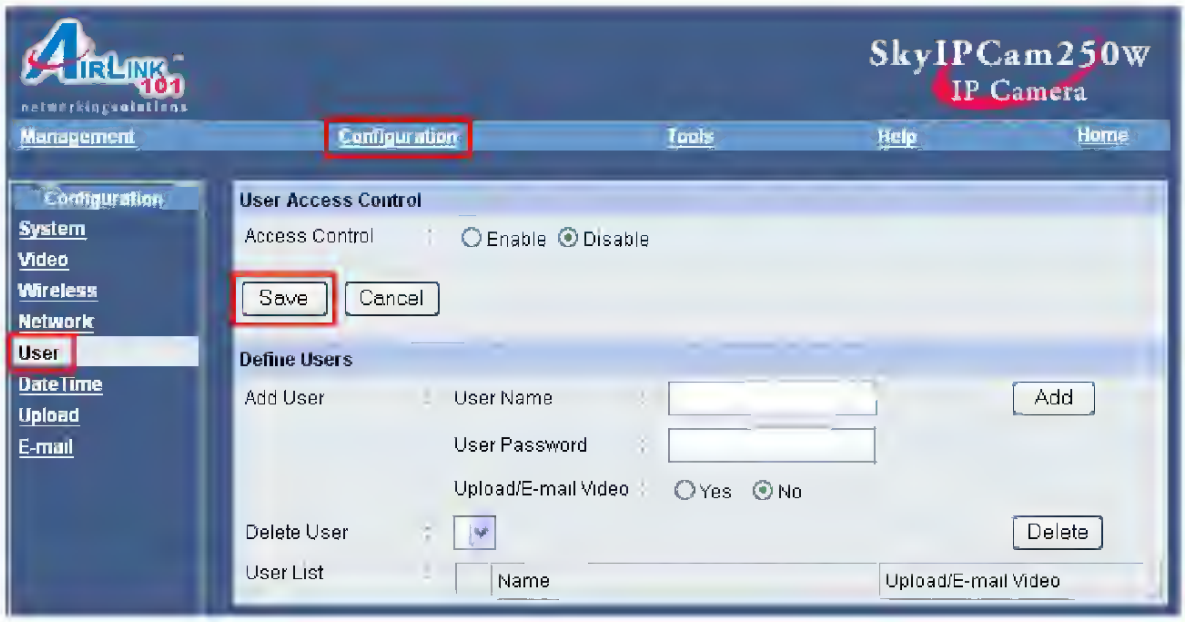
Second HTTP Port: Select to enable or disable the Second HTTP Port. If you want to host videos over the Internet, you must enable the Second HTTP Port and assign a port number that's not in use by another application.

UPnP: Select to enable or disable Universal Plug-and-Play.

Click **Save** to apply the new settings.

8.2.5 Configuration – User

The **Configuration – User** page allows you to configure the **User Access Control** of the Camera.



You can create additional user accounts to allow them to monitor the Camera from remote locations. Select to **Enable** or **Disable** User Access Control.

To add a new user, enter the new User Name and Password. Specify whether the new user can upload/e-mail the video or not. Click **Add** to add the new user to the **User List**.

Click **Save** to apply the new settings.

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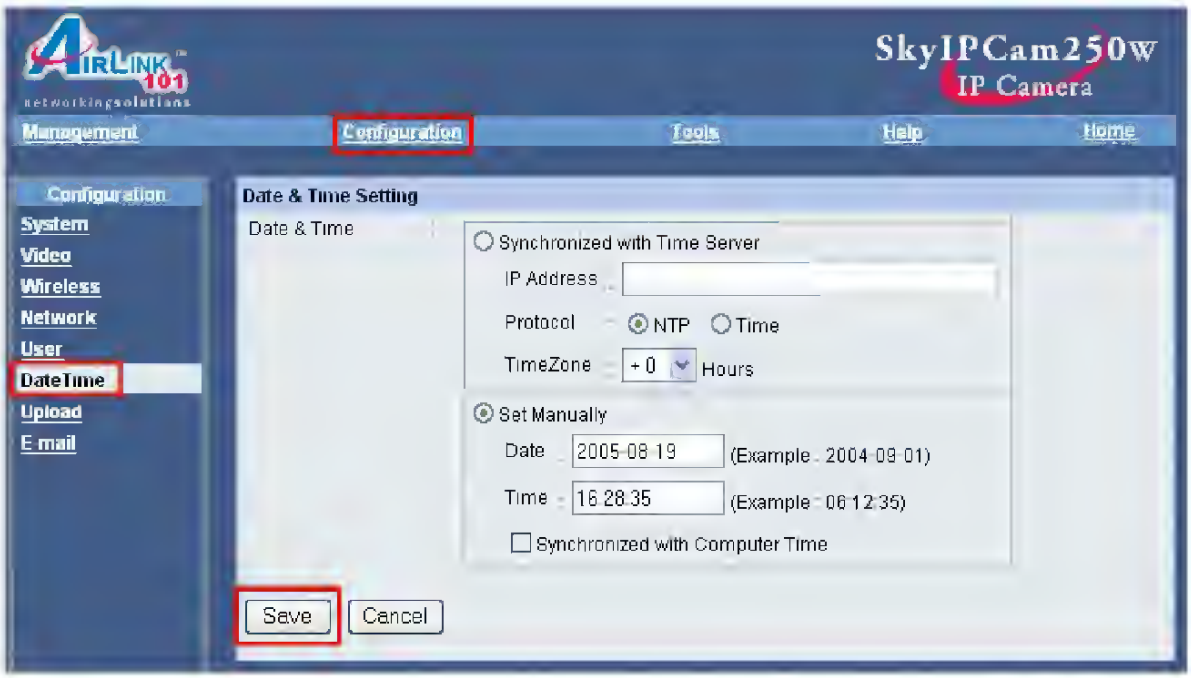
8.2.6 Configuration – Date & Time

The **Configuration – Date Time** page allows you to configure the **Date & Time Settings** of the Camera.



Synchronized with Time Server: The date and time will be synchronized with the Time Server you've specified.

IP Address: Enter the IP Address of the Time Server
Protocol: Select either **NTP** or **Time** as your protocol
TimeZone: Select your time zone based on the GMT setting.

Set Manually: Manually set the Date and Time for the Camera.

Date: Enter the current date.
Time: Enter the current time.
Synchronized with Computer Time: Check this box to synchronize the Camera's time with your computer's time.

Click **Save** to apply the new settings.

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8.2.7 Configuration – Upload

The **Configuration – Upload** page allows you to configure the **Upload Settings** of the Camera.

FTP Server: Enter the information for the FTP server that you want to upload the images to.

Time Schedule: You can setup a time schedule to always upload or periodically upload images to the designated FTP server.

Manual Operation: When you click on the Upload Video **ON** button in the view image screen, it will start to upload the image and save the image with the file name specified in the **Base File Name** field.

Click **Save** to apply the new settings.

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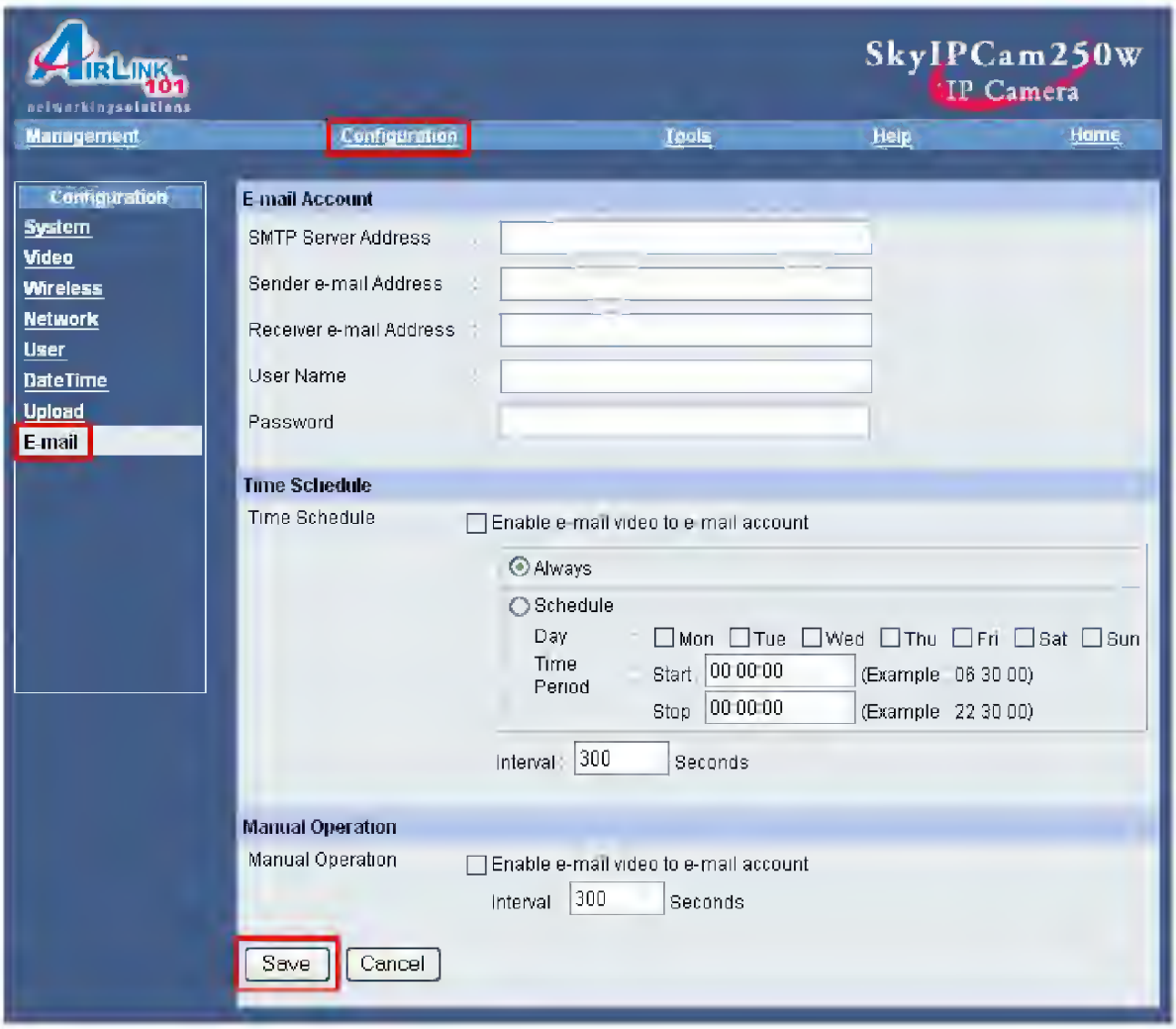
8.2.8 Configuration – E-mail

The **Configuration – E-mail** page allows you to configure the **E-mail Settings** of the Camera.



E-mail Account: Enter the information for your SMTP E-mail account that you want to e-mail the images to.

Time Schedule: You can setup a time schedule to always e-mail or periodically e-mail images to the designated e-mail account.

Manual Operation: When you click on the E-mail Video **ON** button in the view image screen, it will start to e-mail the images at the designated interval to the specified e-mail account.

Click **Save** to apply the new settings.

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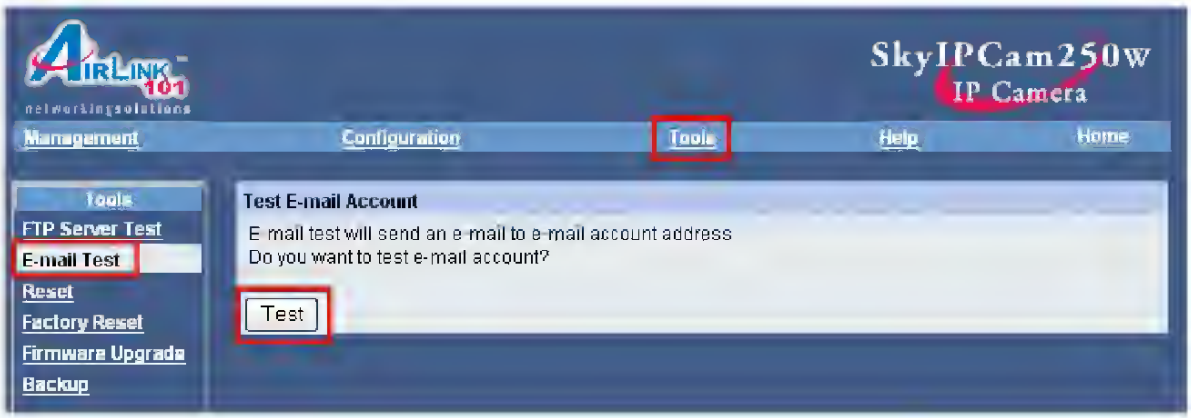
8.3.1 Tools – FTP Server Test

The **Tools – FTP Server Test** page allows you to test the **FTP Server Settings** of the Camera.

Click on **Test** to perform the test. A jpeg file will be uploaded to the FTP server you specified.

8.3.2 Tools – E-mail Test

The **Tools – E-mail Test** page allows you to test the **E-mail Settings** of the Camera.



Click on **Test** to perform the test. An e-mail will be sent to the e-mail account you specified.

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8.3.3 Tools – Reset

The **Tools – Reset** page allows you to Reset the Camera.

Click on **Yes** to perform the reset.

8.3.4 Tools – Factory Reset

The **Tools – Factory Reset** page allows you to perform a Factory Reset on the Camera.

Click on **Yes** to reset the Camera and return all the settings to the factory default.

Note: *Performing a factory reset will erase all of your previously saved settings.*

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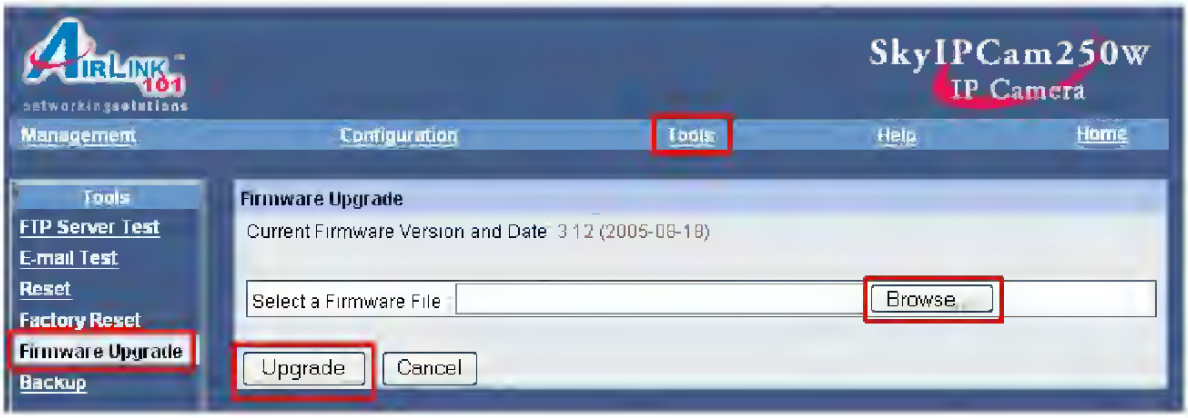
8.3.5 Tools – Firmware Upgrade

The **Tools – Firmware Upgrade** page allows you to upgrade the Camera firmware.



You can check our website at www.airlink101.com to see if there is a newer firmware available for download.

Step 1 Download the new firmware from our web site at www.airlink101.com

Step 2 Unzip the new firmware.

Step 3 Click on the **Browse** button and locate the new firmware.

Step 4 Click on the **Upgrade** button to begin the upgrade.

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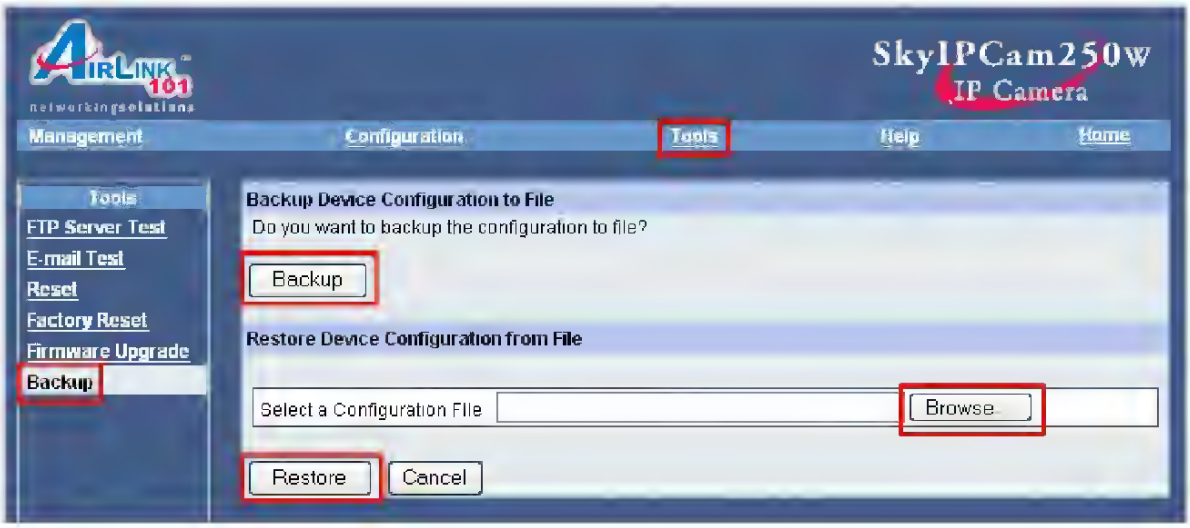
8.3.6 Tools – Backup

The **Tools – Backup** page allows you to **Backup and Restore** the Camera's settings.



To backup the Camera's settings to your computer, click on the **Backup** button. A window will appear asking for the save location. The settings will be saved as **Config.bin**

To restore the saved settings, click on the **Browse** button, browse to the saved file, and click on the **Restore** button.

8.4.1 Help – About

The **Help – About** page displays the Camera's current firmware version.

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9. Viewing Videos from External Networks

If you want to access the Camera from an external network such as the Internet, please read the following example carefully and follow the steps.

Before you begin, you'll need to know your **Internet IP Address (WAN IP)** assigned by your Internet Service Provider (ISP) and at least one of your **ISP's DNS IP Address**. You can usually find these information on the **Status** page of your router's web configuration utility. If not, you'll need to contact your ISP for assistance.

Example:

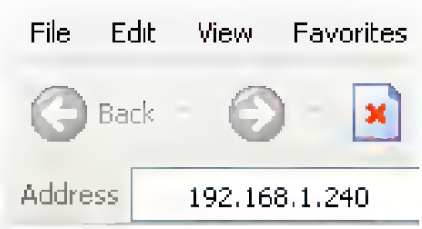
Network A = Location of the Camera

Camera's IP Address is **192.168.1.240** with Second HTTP Port **81** Enabled.

Network A's router has an Internet IP Address (WAN IP) of **172.16.1.1** assigned by the Internet Service Provider (ISP). The ISP's DNS IP Address is **10.0.0.1** and **10.0.0.2**

Network B = Location of the remote client trying to access the Camera.

Step 1 From one of the computers in **Network A**, open the web browser (Internet Explorer or Netscape), enter the Camera's IP Address **192.168.1.240** in the Address Bar and press **Enter**.



Step 2 Click on **System Administration** to enter the Web Configuration Utility.

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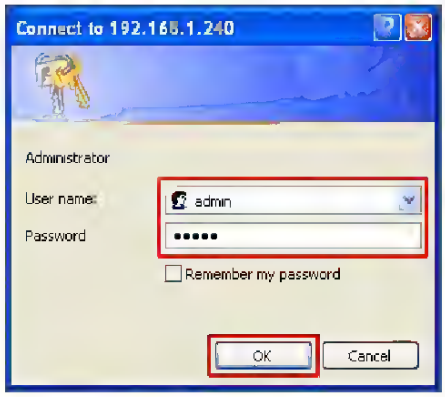
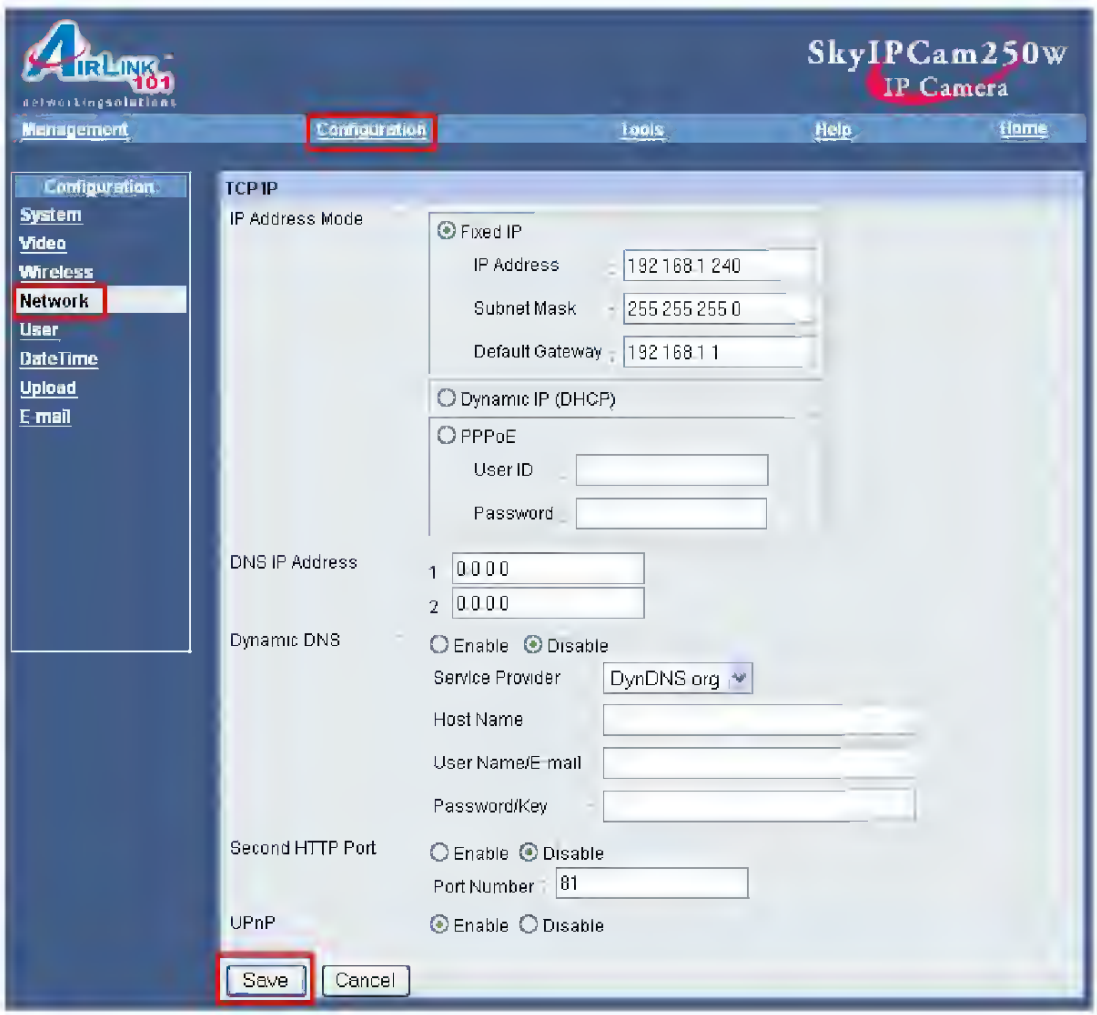
Step 3 Enter **admin** for both the **User name** and **Password** or enter the new User name and Password that you have previously specified and click **OK**.



Step 4 Click on **Configuration** then **Network**.



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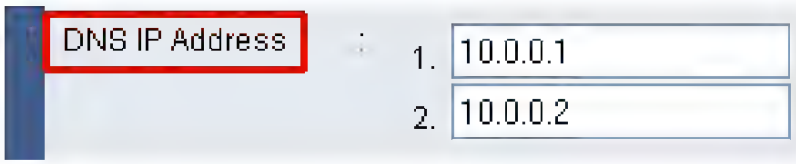
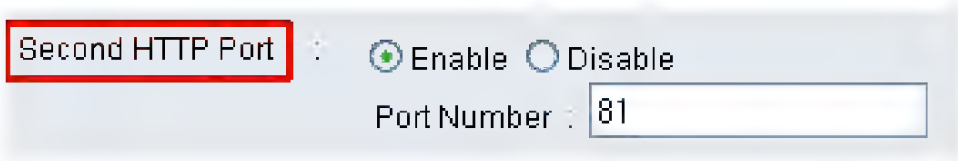
Step 5 Enter your ISP's DNS IP Address at the **DNS IP Address** field.



Step 6 Select **Enable** for the **Second HTTP Port** and enter a **Port Number** for the Camera (default is **81**).

Important: You must assign a port number that's not in use by any other application on your network.



Step 7 Click **Save** to apply the new settings.

Now the Camera with IP Address of **192.168.1.240** has port **81** Open.

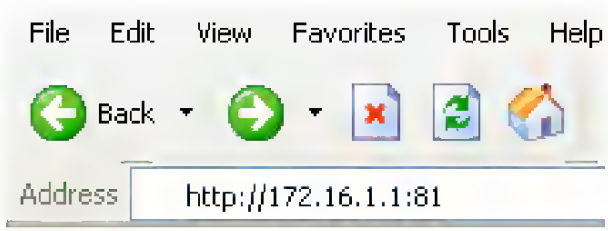
Step 8 From one of the computers in **Network A**, login to the web configuration utility of **Network A's** router.

Step 9 Navigate to the router's **Virtual Server** or **Port Forwarding** page.

Step 10 Enable Forwarding of port **81** to the Camera's IP Address (**192.168.1.240**) and save the new setting.

Step 11 From one of the computers in **Network B**, open the web browser (Internet Explorer or Netscape), enter the **Internet IP Address (WAN IP)** of **Network A's** router (**172.16.1.1**) followed by a colon **:** and the port number of the Second HTTP Port (**81**) in the Address Bar and press **Enter**.

Ex. **http://172.16.1.1:81**



The remote client in **Network B** should be able to see the images from the Camera now.

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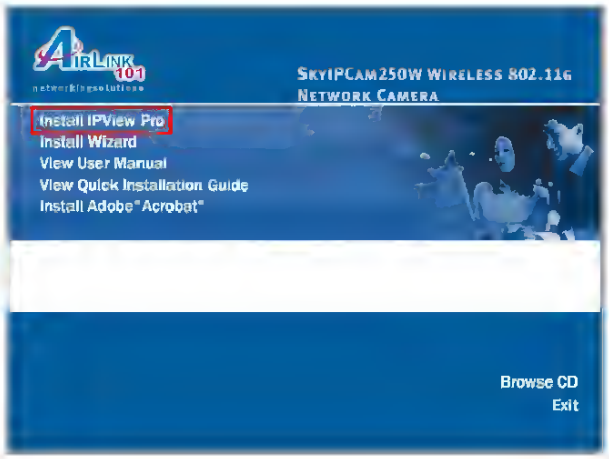
10. IPView Pro

The bundled IPView Pro software features a user-friendly interface that allows you to manage, view, and configure multiple IP Cameras on your network. Follow the steps below if you wish to install and use this software.

10.1 Installing IPView Pro

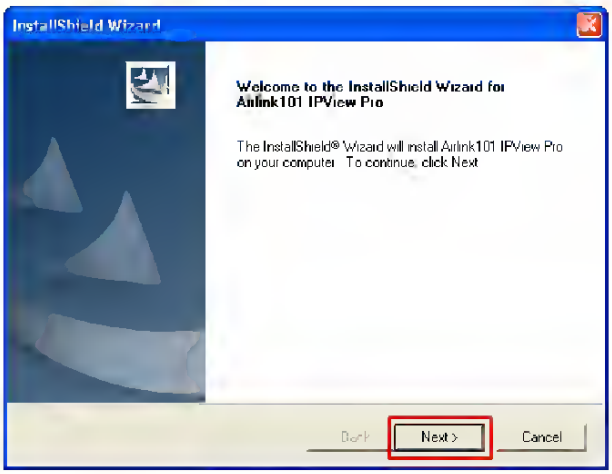
Step 1 Insert the provided CD and wait for the autorun screen to appear.

Step 2 Click on **Install IPView Pro**.



Note: *If the autorun screen does not appear automatically, go to* ***Start***, ***Run***, *type* ***D:\autorun.exe*** *(where* ***D*** *is the letter of your CD drive) and click* ***OK***.

Step 3 Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for Airlink101 IPView Pro
The InstallShield® Wizard will install Airlink101 IPView Pro on your computer. To continue, click Next.
< Back
Next >
Cancel

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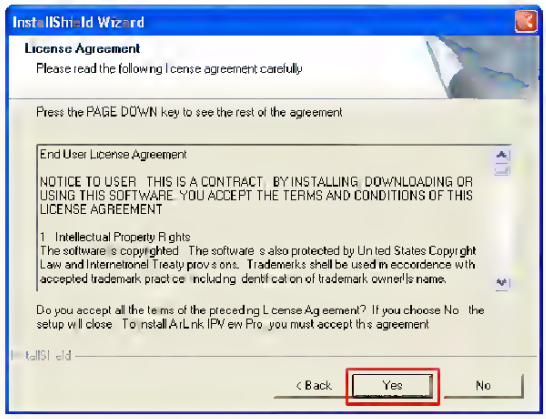
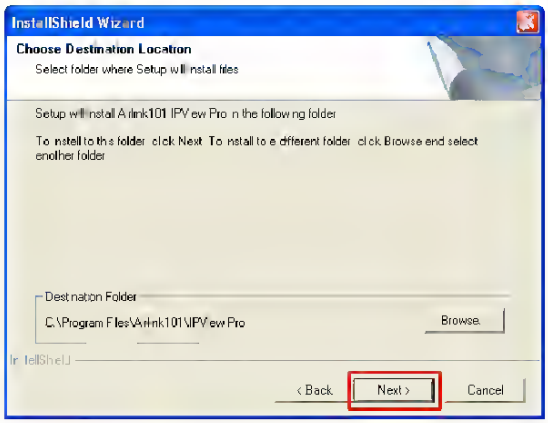
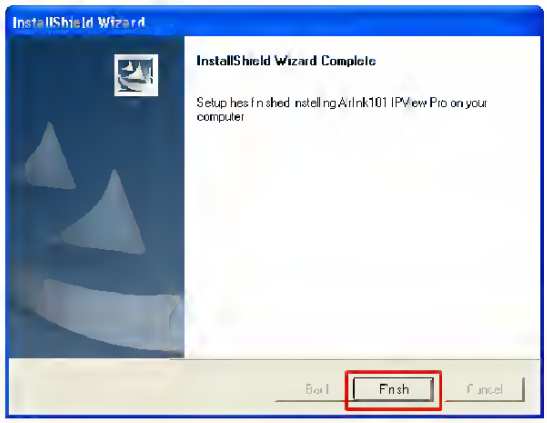
Step 4 Click **Yes** to accept the License Agreement.


InstallShield Wizard
License Agreement
Please read the following license agreement carefully
Press the PAGE DOWN key to see the rest of the agreement
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT
1. Intellectual Property Rights
The software is copyrighted. The software is also protected by United States Copyright Law and International Treaty provisions. Trademarks shall be used in accordance with accepted trademark practice, including identification of trademark owner's name.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install AirLink IPView Pro, you must accept this agreement.
InstallShield
< Back
Yes
No

Step 5 Click **Next** to accept the default Destination Folder.


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files
Setup will install AirLink101 IPView Pro in the following folder
To install to this folder, click Next. To install to a different folder, click Browse and select another folder
Destination Folder
C:\Program Files\AirLink101\IPView Pro
Browse...
InstallShield
< Back
Next >
Cancel

Step 6 Click **Finish** to complete the installation.



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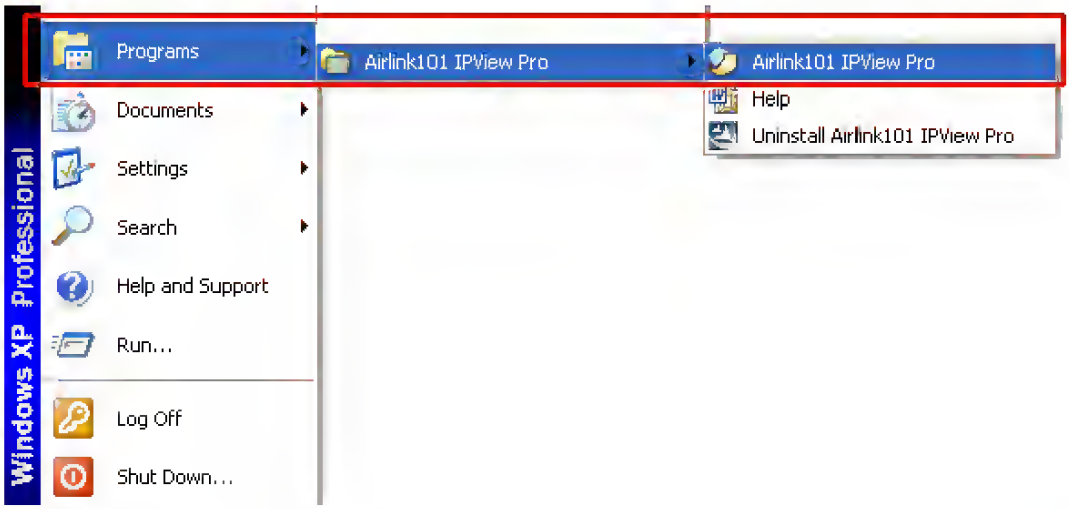
10.2 Starting IPView Pro

To start IPView Pro, go to **Start > (All) Programs > Airink101 IPView Pro > Airlink101 IPView Pro**



The main screen will appear as below:

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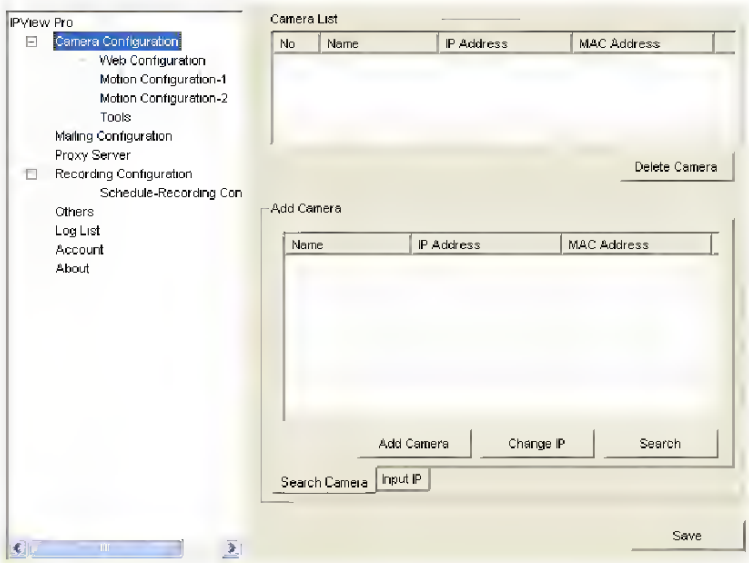
10.2.1 Adding Camera using the Search Method

Before you can do anything, the camera must be added to the **Camera List** first. If you have more than one camera, you'll need to add the additional cameras to the list as well. The **Search Method** is the easiest way to add your local cameras to the list.

Step 1 Click on the **System Configuration** button.

Step 2 The **System Configuration Window** will appear. This is where you configure all of your cameras that have been added to the **Camera List**.



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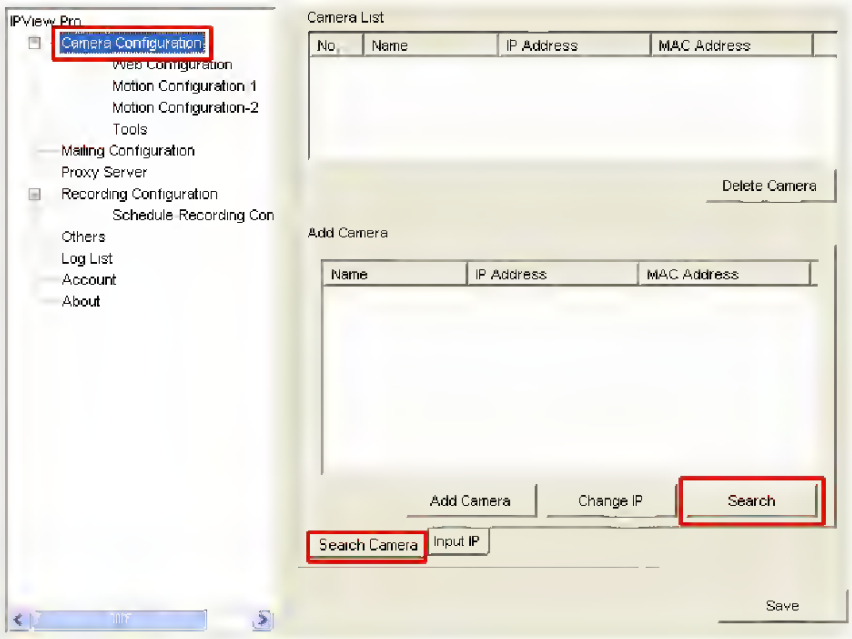
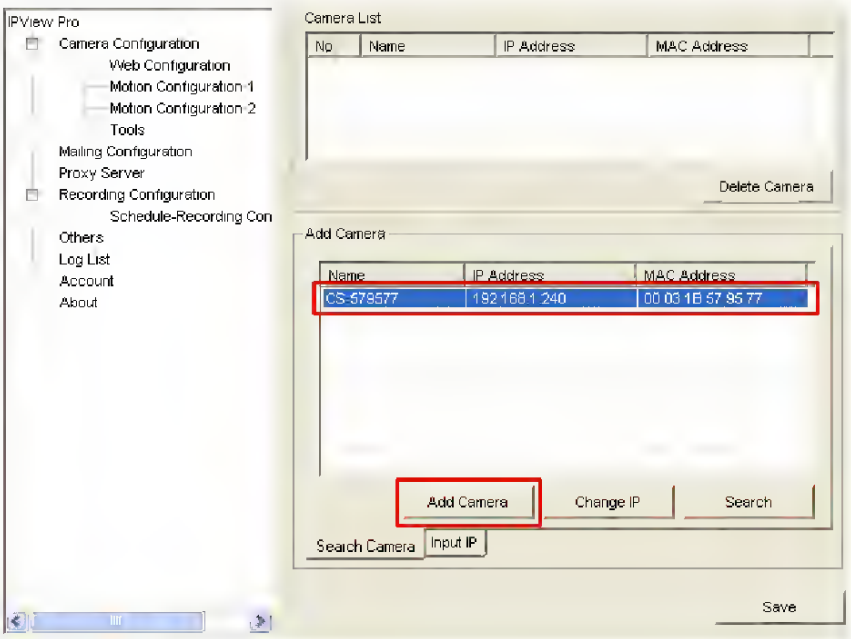
Step 3 Verify your camera is connected to your network and is powered on. Click on the **Search** button.



Step 4 Select your camera from the Add Camera list and click on **Add Camera**.



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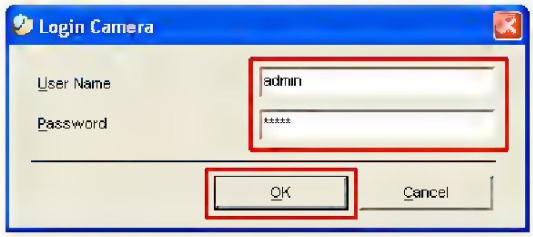
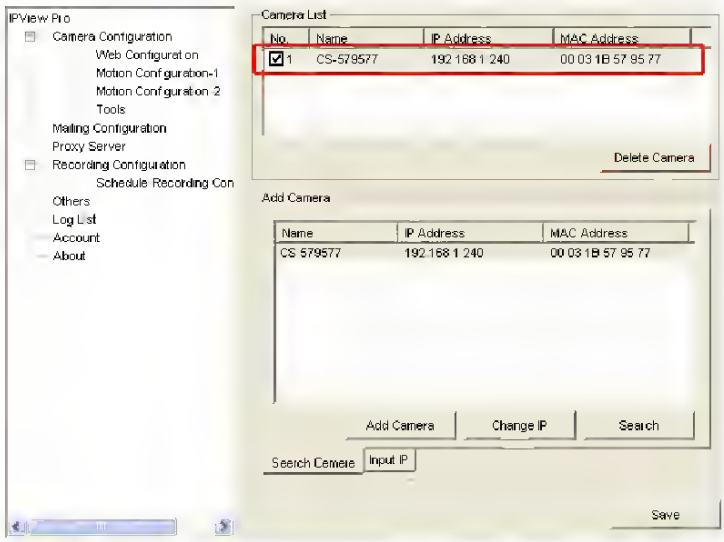
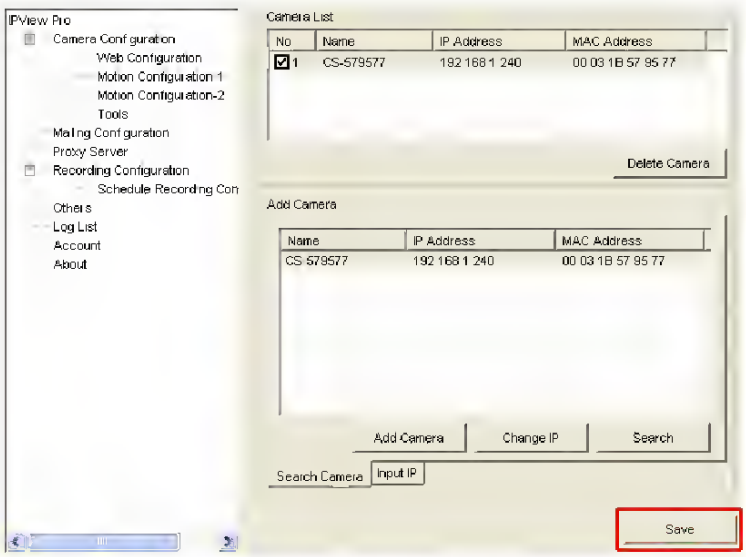
Step 5 Enter the User Name and Password for the camera. (Default is **admin** for both).



Step 6 You should see your camera added to the **Camera List**.



Step 7 Click **Save** to apply the changes.



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Step 8 Click on the **System Configuration** button to close the System Configuration Window. You should now see live images from the camera.

***Note**: If you want to add a camera located on a remote network (through the Internet), you must add the camera using the **Input IP** method described below.*

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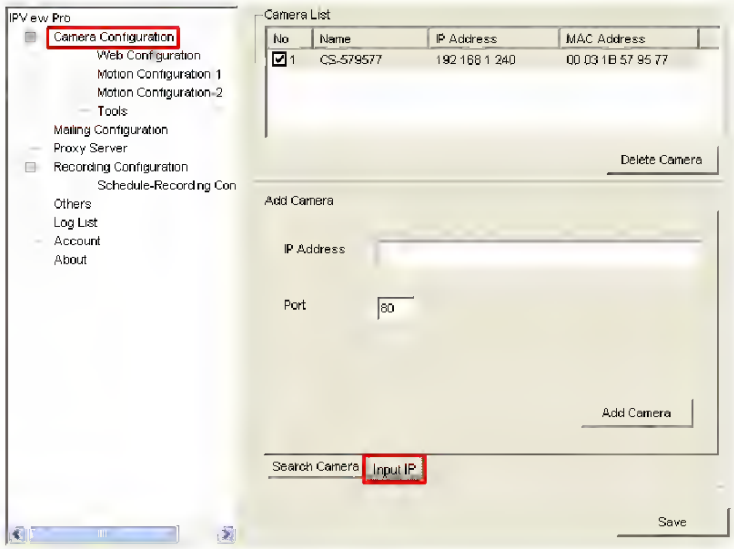
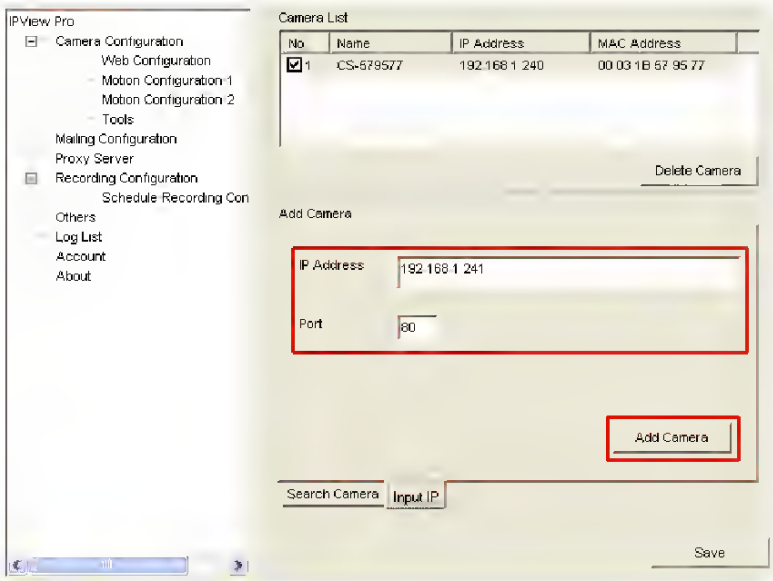
10.2.2 Adding Camera using the Input IP Method

An alternative way to add your local camera to the Camera List is to use the Input Method. If you want to add a camera located on a remote network (through the Internet), you must use this method as well.

Step 1 Select the **Input IP** tab.



Step 2a For local camera, enter the **local IP Address** of your camera and click **Add Camera**. Skip to **Step 3**.



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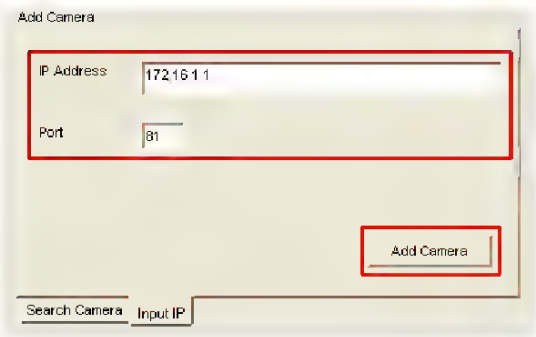
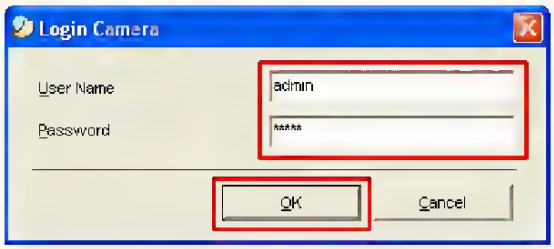
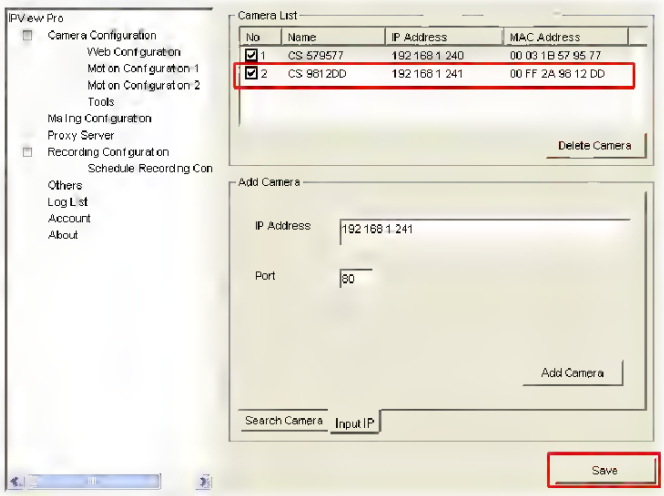
Step 2b For remote camera, enter the **Internet IP Address (WAN IP)** of the remote router and the port number of the **Second HTTP Port** of the remote camera and click **Add Camera**.



Step 3 Enter the User Name and Password for the camera. (Default is **admin** for both).



Step 4 You should see your camera added to the **Camera List**.



Step 5 Click **Save** to apply the changes.

Step 6 Click on the **System Configuration** button to close the System Configuration Window.

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10.3 Using IPView Pro

This section describes the various features of IPView Pro.

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10.3.1 Status Mode Window

The **Status Mode Window** displays a list of cameras that are added to IPView Pro as well as the status of each selected camera.

Select the desired camera from the list then click on the **Change Status Mode** button to view the status of the camera.

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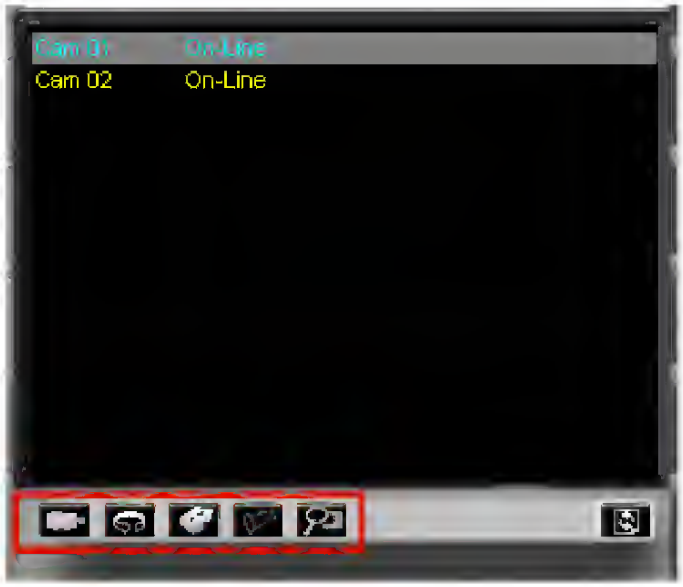
Use the **Camera Buttons** to control the camera's various functions.



From left to right:

Connect/Disconnect: Connects or disconnects the video signals from the selected camera.

Rotate Image Angle: Rotates the angle of the video.

Snapshot: Takes a snapshot image of the current video. When you click on this button, a window will appear asking you to specify the image name and the save location.

Audio: Disabled for this model.

Zoom Mode: Adjusts the zoom setting of the camera.

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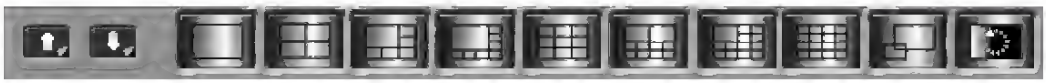
10.3.2 View Window and View Mode Buttons

The **View Window** displays video from the currently selected camera.

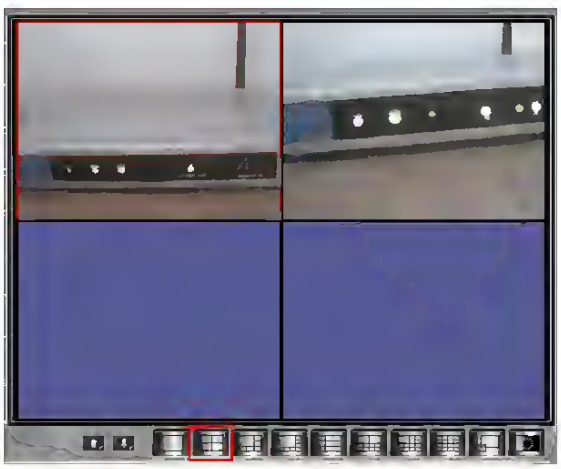
Use the **View Mode Buttons** to select the desired viewing mode.



From left to right:

Up/Down Arrows: If you have more than one camera in your network, you can use the **Up/Down Arrow Buttons** to view the videos from each camera.

View Modes: Select the desired view mode. The view window can display up to 16 cameras simultaneously.



Full-Screen Mode: Displays the video in full-screen.

Scan Mode: Scans through each camera at a set interval (in seconds).

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10.3.3 Control Panel

The **Control Panel** contains essential buttons for operating IPView Pro.

Key Lock: The **Key Lock** button locks all the buttons on the IPView Pro for security purposes. If you have enabled a password login for IPView Pro, you'll need to input the same password to unlock the key lock.

Power: Click on the **Power** button and select to **Exit** or **Minimize** IPView Pro.

Record: Click on the **Record** button and select **Manual Record** to record the video immediately to your hard drive. If you select **Schedule Record** or **Motion Record**, the camera will record the videos according to the corresponding settings in **System Configuration**. To stop recording, click on the **Record** button and select **Manual Record** again.

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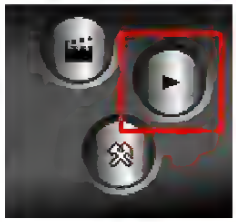
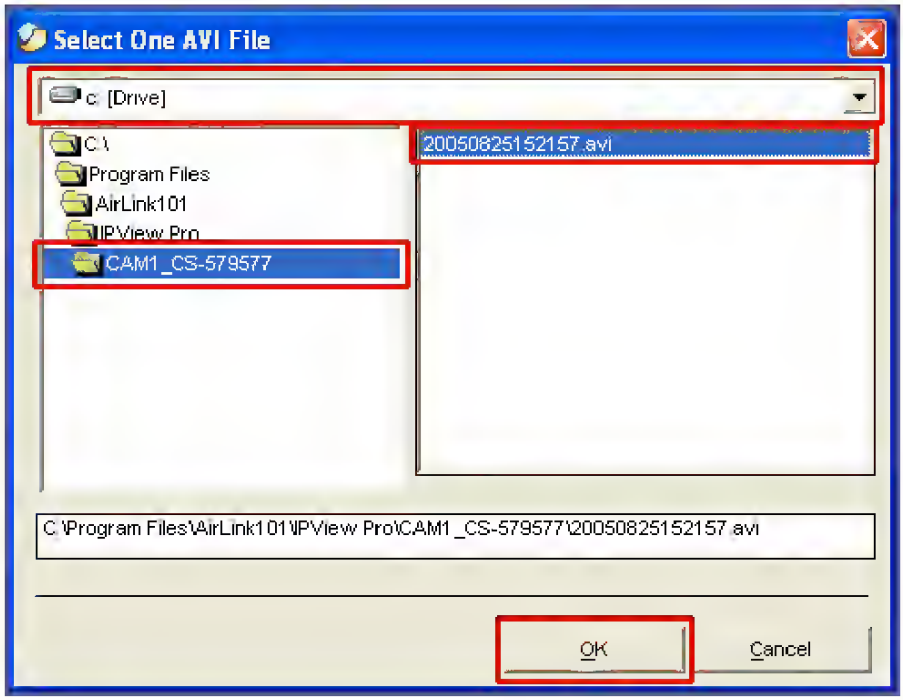
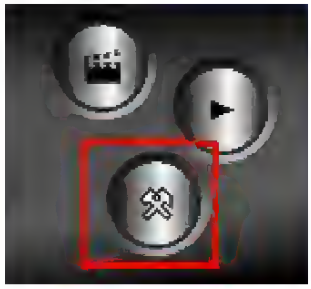


Play: Click on the **Play** button to playback the recorded videos from your hard drive.

A window will appear asking you for the location of the recorded video. Select the desired video and click **OK** to begin playback.





System Configuration: Click on the **System Configuration Button** to open the **System Configuration Window**.

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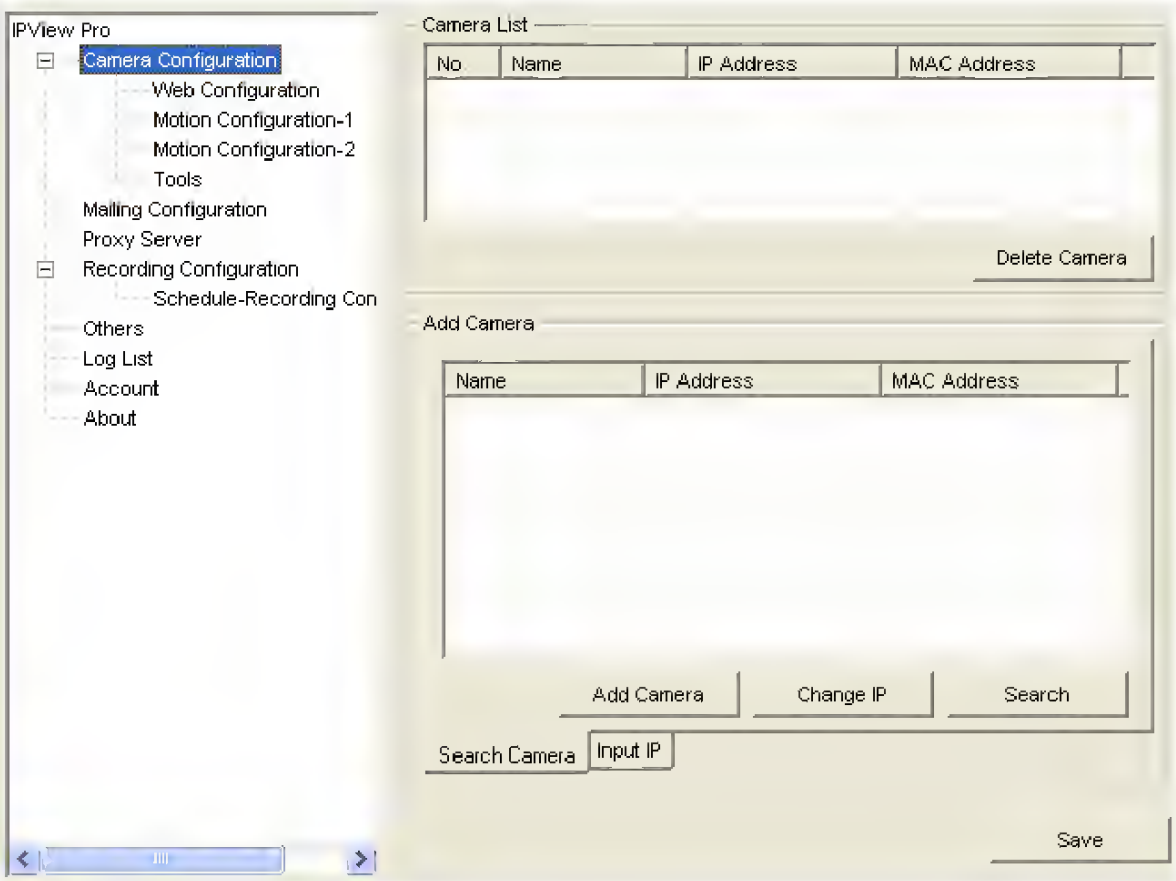
10.4 System Configuration

The **System Configuration Window** is where you configure the settings of IPView Pro and all the cameras that are added to the **Camera List**.



10.4.1 Camera Configuration

The **Camera Configuration** page allows you to add the cameras in your network to IPView Pro's **Camera List**. For instructions on how to do add your cameras, please refer to ***Section 9.2.1 Adding Camera Using the Search Method***.

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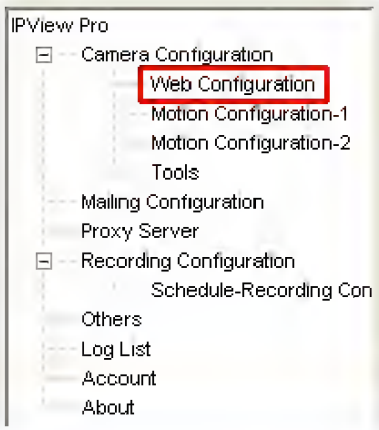
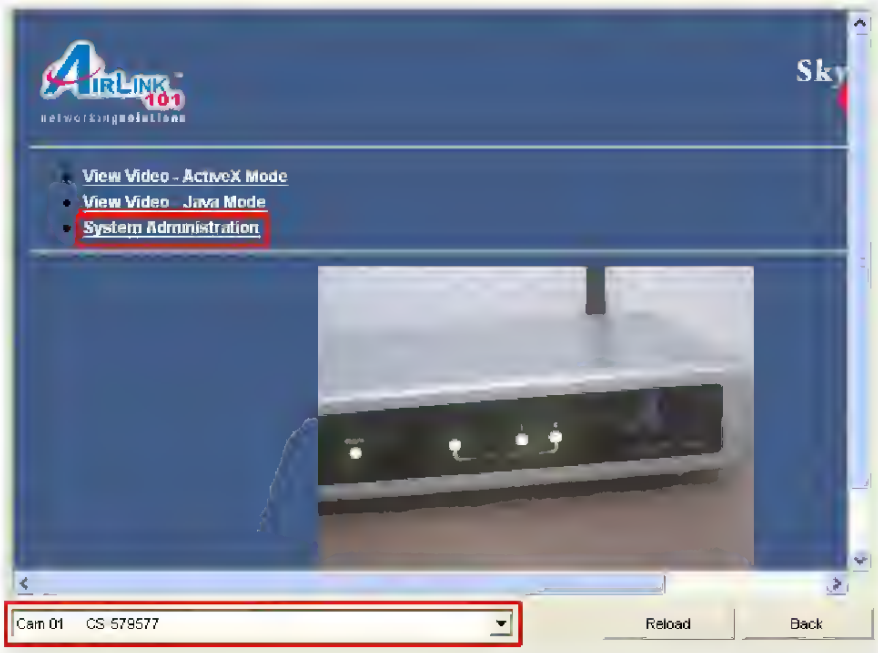
10.4.2 Web Configuration

The **Web Configuration** page allows you to access the **Web Configuration Utility** of the selected camera.





Use the drop-down menu to select the desired camera and click on **System Administration** to enter the camera's **Web Configuration Utility**.

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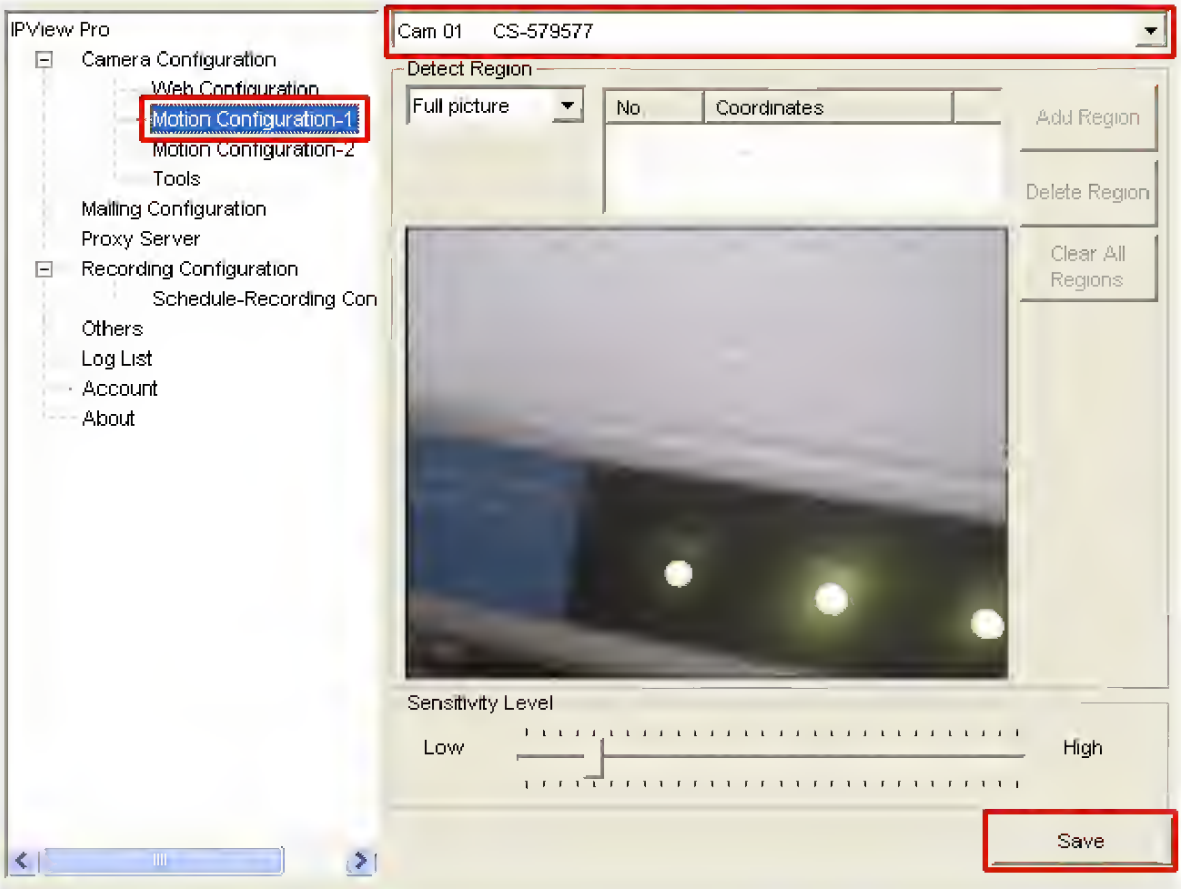
10.4.3 Motion Configuration-1

The **Motion Configuration-1** page allows you to set the **Motion Detection** settings.



Select the desired camera from the drop-down menu.

Detect Region: When you select **Full picture**, the camera will monitor the entire screen.

Sensitivity Level: Adjust the slide bar to set the sensitivity level of the motion detection. Once motion is detected, recording will begin if you have enabled **Motion Record** from the **Record Button**.

Click **Save** to apply the changes.

At the **Record Button**, select **Motion Record**.

Recording will begin when motion is detected.

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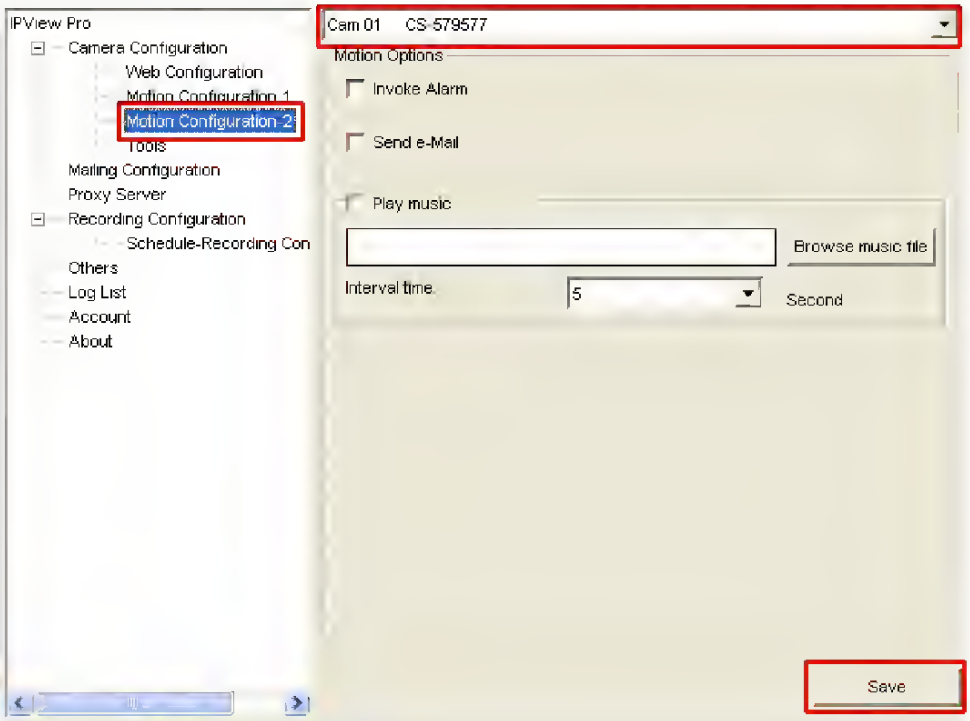
10.4.4 Motion Configuration-2

The **Motion Configuration-2** page allows you to set the desired action when motion is detected.



Select the desired camera from the drop-down menu.

Motion Options:

Check on each box to enable the desired action when motion is detected.

Invoke Alarm: A notice will appear in the **Status Mode Window** when motion is detected.

Send e-Mail: An e-mail will be sent to the recipient specified in the **Mail Configuration** page.

Play music: A music file will be played. Click on the **Browse music file** button to select the file.

Interval time: Select the time interval (in seconds) between each playback of the music.

Click **Save** to apply the changes.

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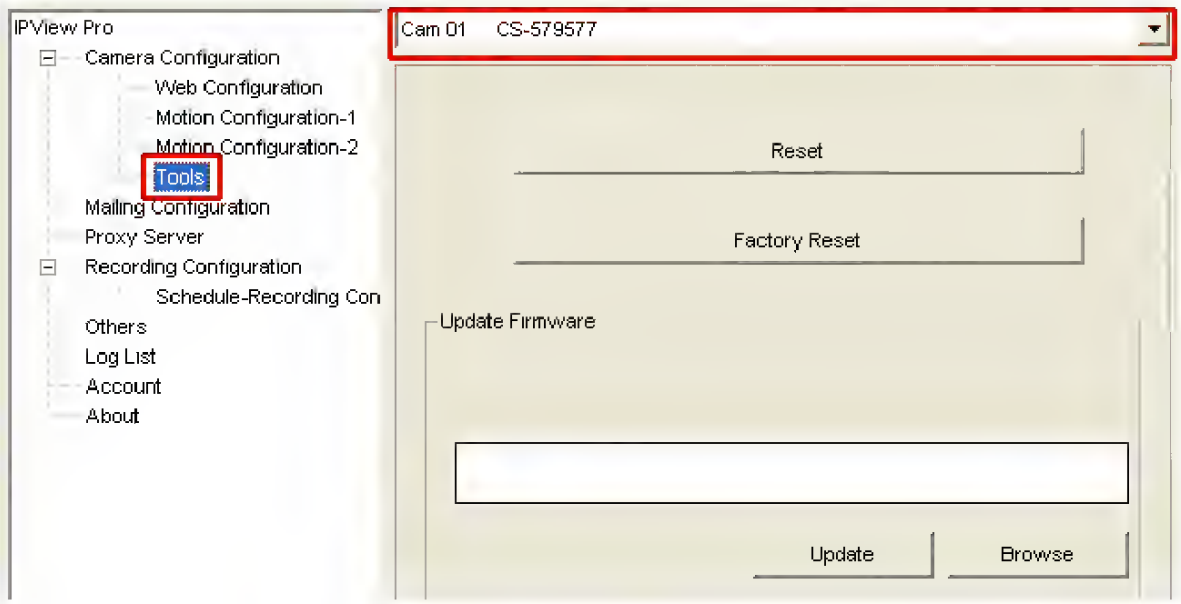
10.4.5 Tools

The **Tools** page allows you to perform various administrative functions on the selected camera.



Select the desired camera from the drop-down menu.

Reset: Click on the **Reset** button to reset the selected camera.

Factory Reset: Click on the **Factory Reset** button to reset the camera and return all of the camera's settings to factory default.

Update Firmware:

Click on **Browse** to locate the new firmware and click **Update** to update the camera's firmware.

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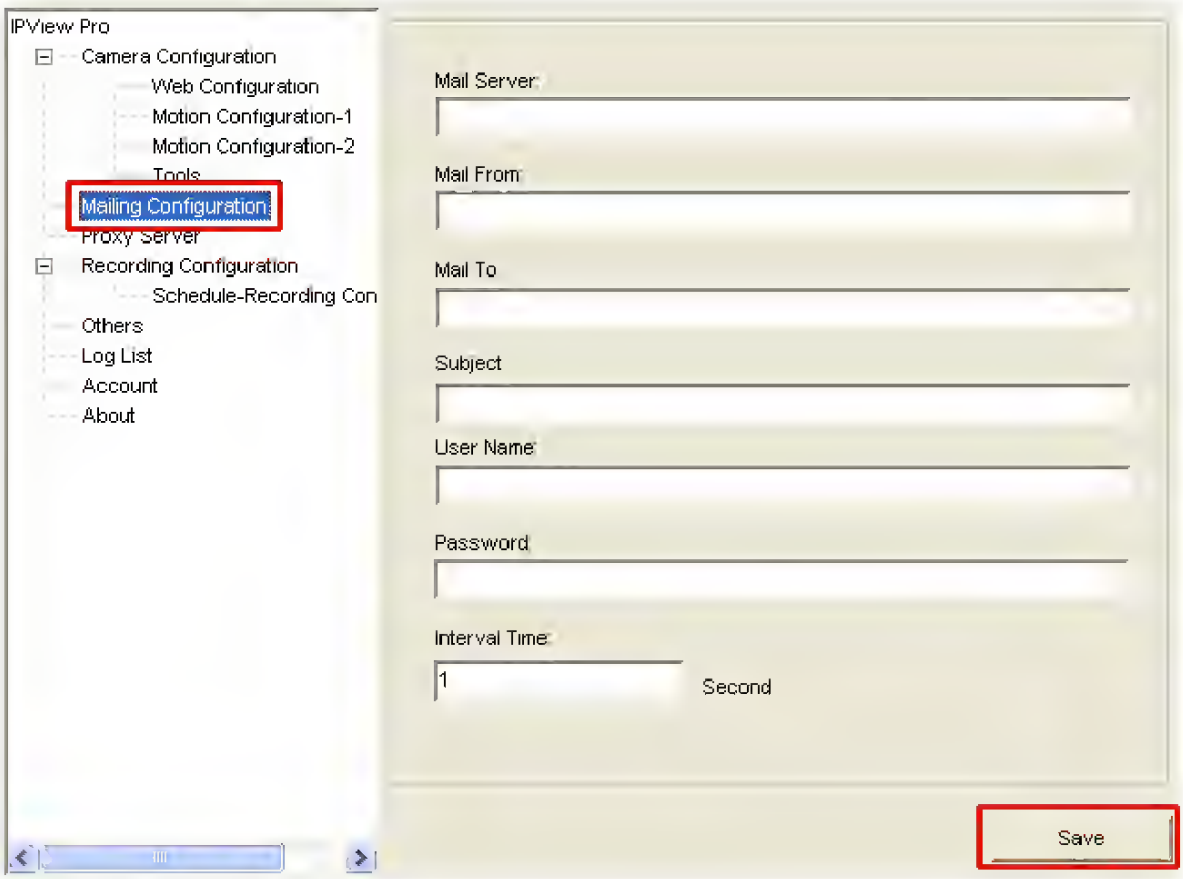
10.4.6 Mail Configuration

The **Mail Configuration** page allows you to specify the recipient of the E-mail alert when motion is detected and the **Send e-Mail** option is selected.



Mail Server: Enter the IP Address of the Mail Server that is used to send your e-mail.

Mail From: Enter the sender's e-mail address.

Mail To: Enter the recipient's e-mail address.

Subject: Enter the title of the e-mail.

User Name: Enter the user name for logging into the Mail Server.

Password: Enter the password for logging into the Mail Server.

Interval Time: Enter the time interval (in seconds) to send e-mail regularly.

Click **Save** to apply the changes.

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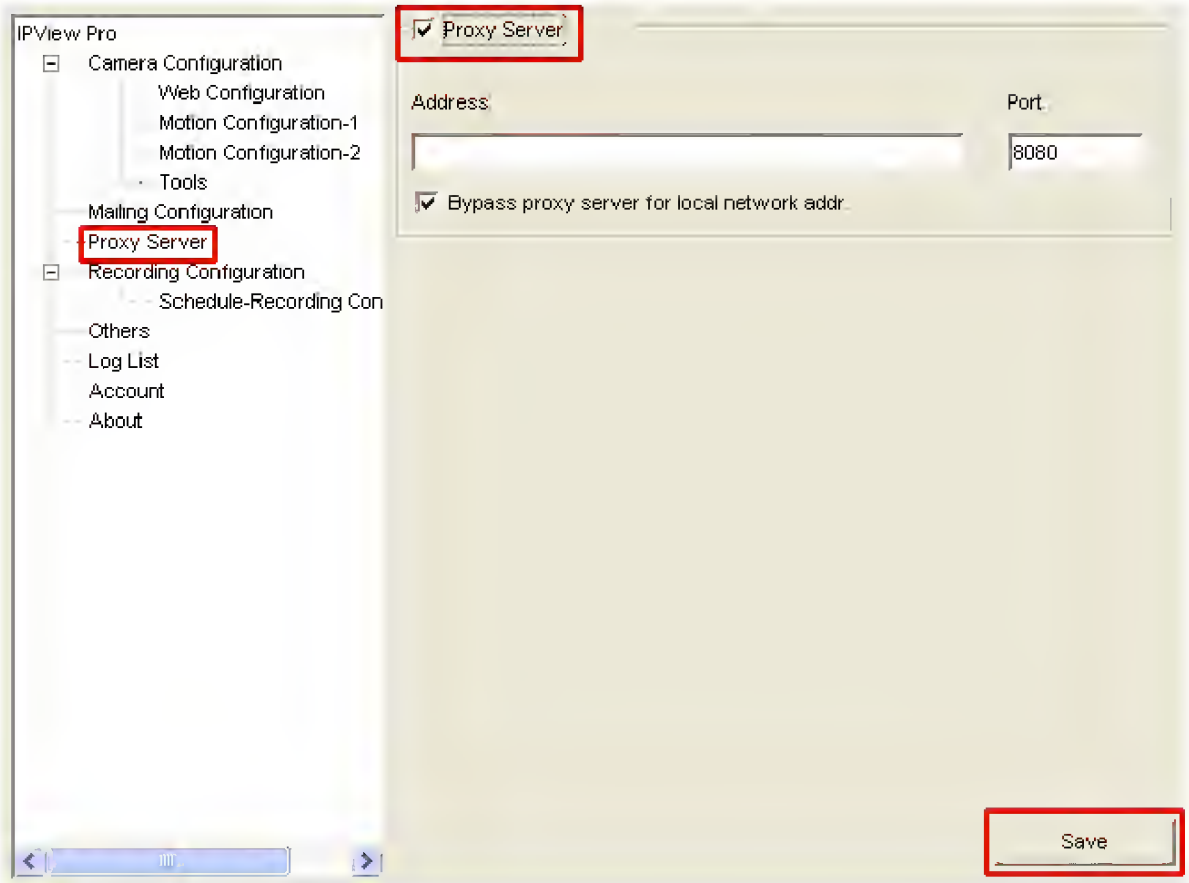
10.4.7 Proxy Server

The **Proxy Server** page allows you to specify the use of a proxy server.



Proxy Server: Check on this box to enable the use of a proxy server.

Address: Enter the IP Address of the desired proxy server.

Port: Enter the port number for the proxy server.

Bypass proxy server for local network address: Check on this box to bypass the proxy server for local network address.

Click **Save** to apply the changes.

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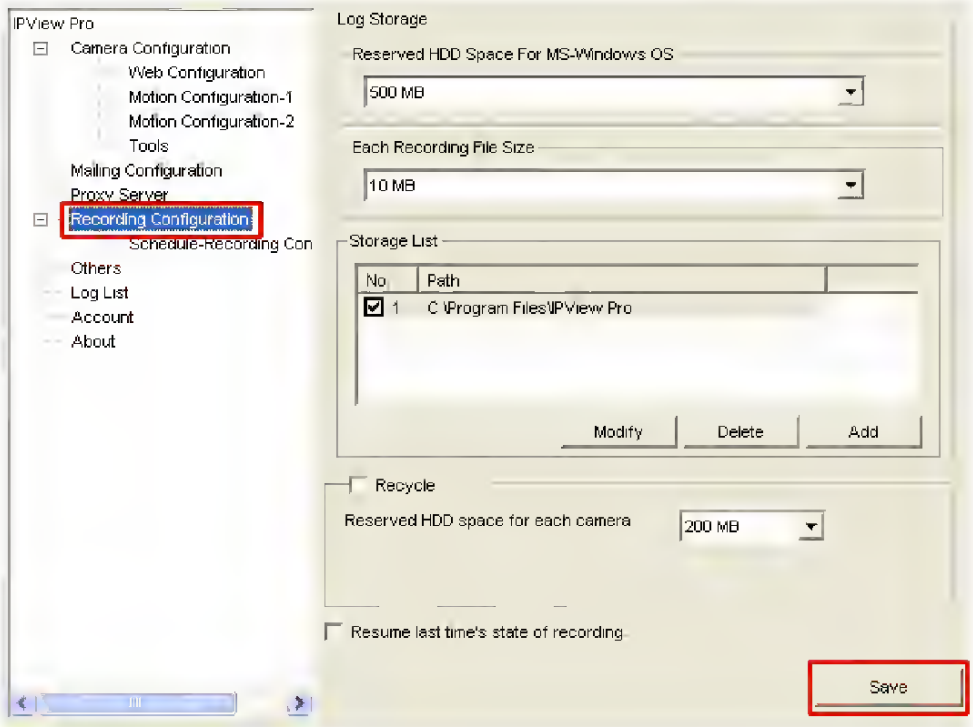
10.4.8 Recording Configuration

The **Recording Configuration** page allows you to set the recording's storage settings.



Reserved HDD Space for MS-Windows OS: Use this drop-down menu to select the size of the hard drive space you want to reserve for your Windows operating system. **(500 MB – 1000 MB).**

Each Recording File Size: Use this drop-down menu to select the maximum size allowed for each recorded video. When a video reaches the maximum limit, a new file will be created. **(10 MB – 50 MB).**

Storage List: Use the **Add**, **Modify**, **Delete** buttons to add, modify, and delete individual storage paths. The storage path indicates where the recorded videos will be saved.

Recycle: Check this box to clear the recorded files when the specified **Reserved HDD space for each camera** is filled. **(200 MB – 50000 MB).**

Resume last time's state of recording: Check this box to resume the same state of recording as the previous time.

Click **Save** to apply the changes.

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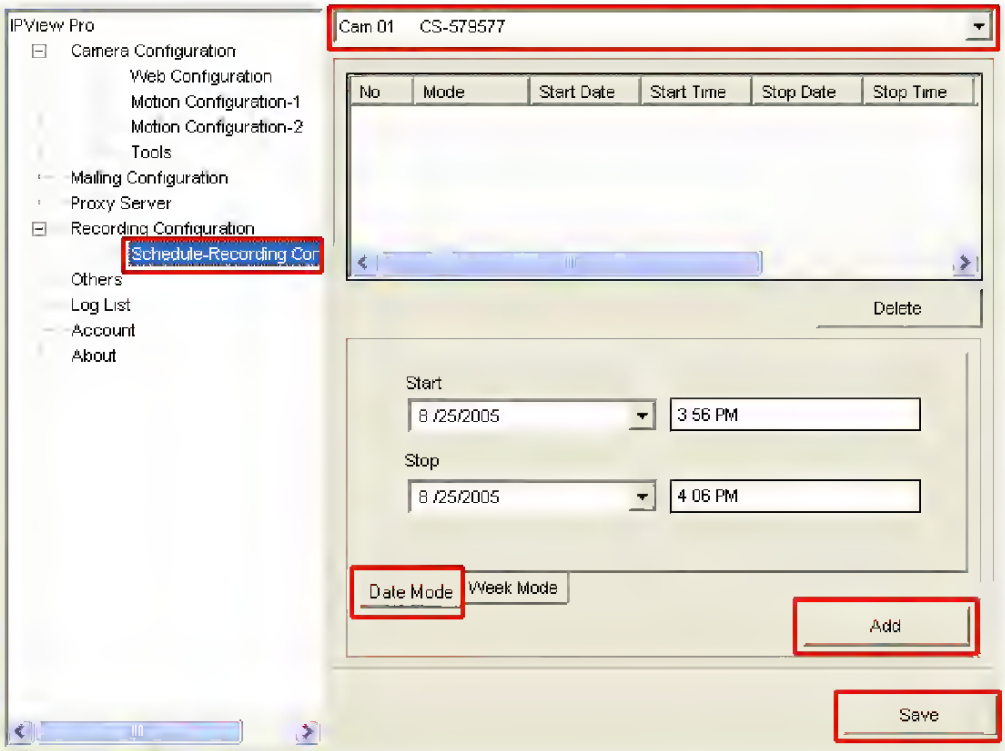
10.4.9 Schedule-Recording Configuration

The Schedule-Recording Configuration page allows you to setup automated recording at the scheduled time.

Date Mode



Select the desired camera from the drop-down menu.

Specify the **Start Date/Time** and the **Stop Date/Time** and click **Add**.

Click **Save** to apply the changes.

At the **Record Button**, select **Schedule Record**.

Recording will begin at the scheduled time.

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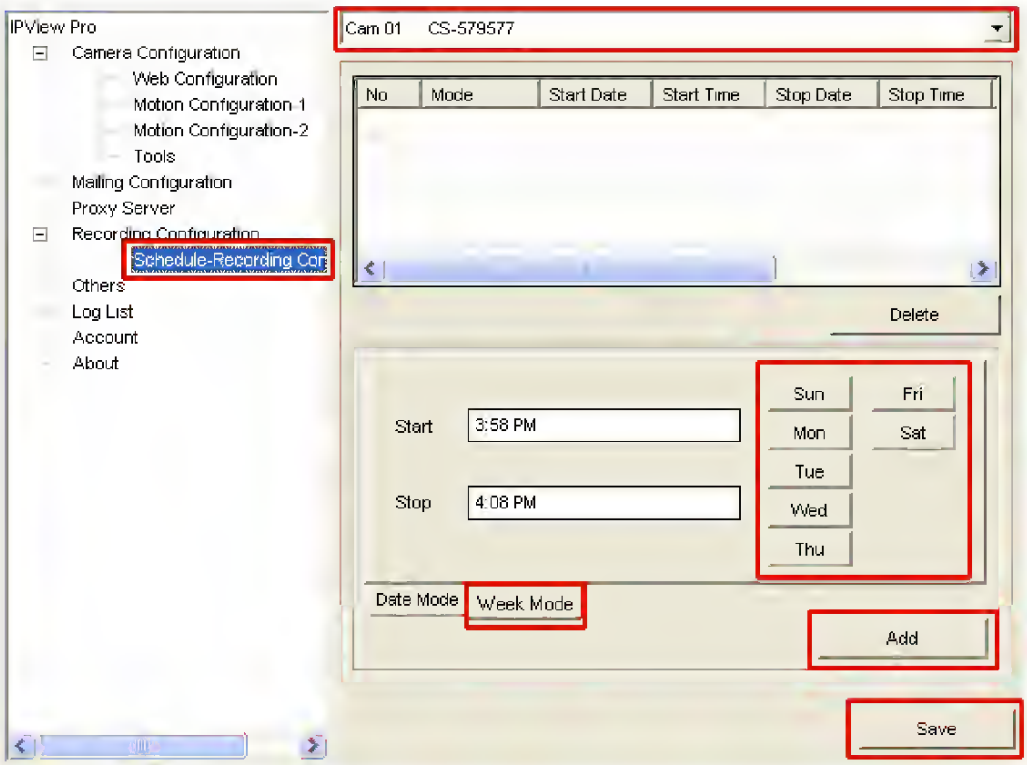
Week Mode



Select the desired camera from the drop-down menu.

Specify the **Start** and **Stop** time for each week and click on the **Days** of the week that you want to record and click **Add**.

Click **Save** to apply the changes.

At the **Record Button**, select **Schedule Record**.

Recording will begin at the scheduled time.

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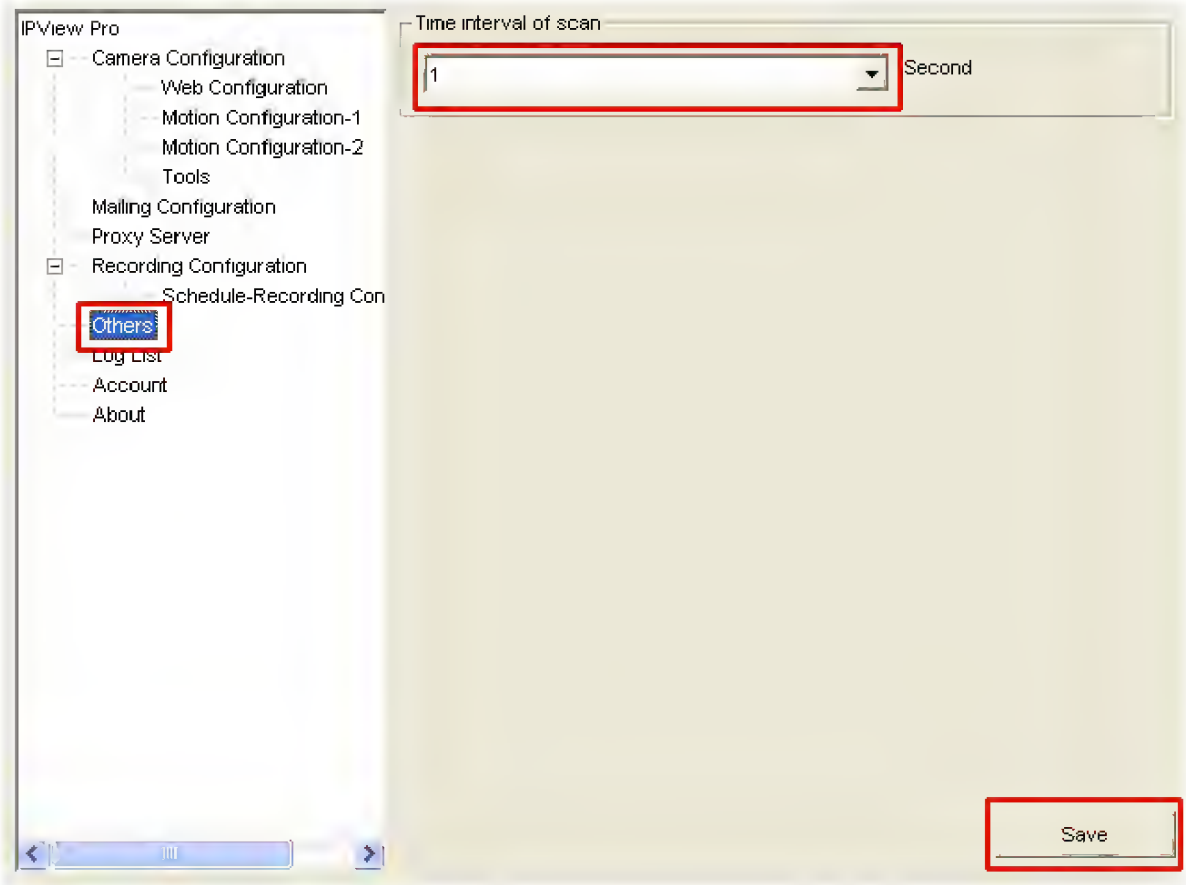
10.4.10 Others

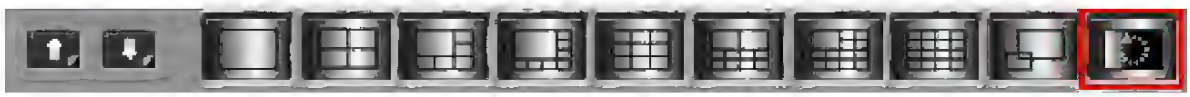
The **Others** page allows you to set the time interval to scan through each camera in your network.



Use the drop-down menu to select the time interval (in seconds) for each scan.

Click **Save** to apply the changes.

Click on the **Scan Mode** button to begin scanning.



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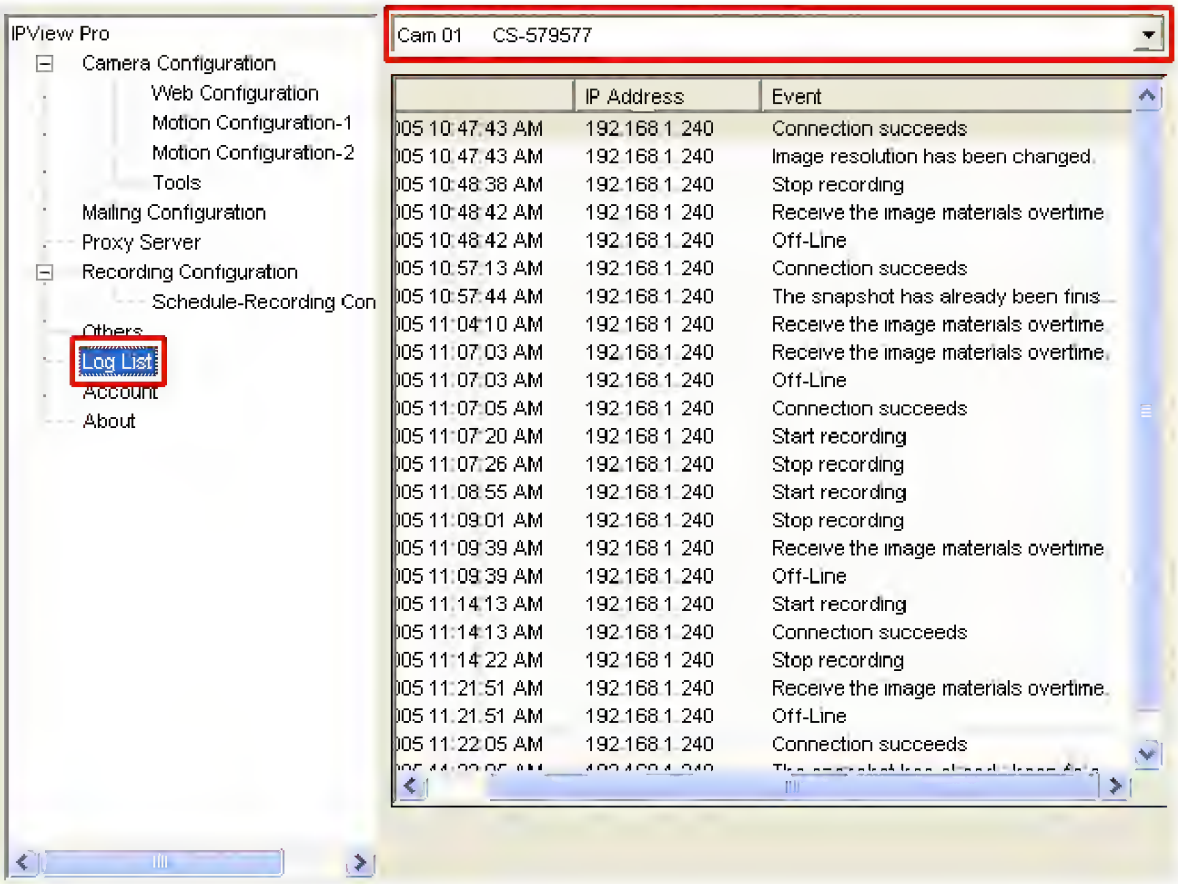
10.4.11 Log List

The **Log List** page displays the log of the selected camera.


IPView Pro
Camera Configuration
Web Configuration
Motion Configuration-1
Motion Configuration-2
Tools
Mailing Configuration
Proxy Server
Recording Configuration
Schedule-Recording Con
Others
Log List
Account
About
Cam 01 CS-579577
IP Address
Event
05 10:47:43 AM 192.168.1.240 Connection succeeds
05 10:47:43 AM 192.168.1.240 Image resolution has been changed.
05 10:48:38 AM 192.168.1.240 Stop recording
05 10:48:42 AM 192.168.1.240 Receive the image materials overtime.
05 10:48:42 AM 192.168.1.240 Off-Line
05 10:57:13 AM 192.168.1.240 Connection succeeds
05 10:57:44 AM 192.168.1.240 The snapshot has already been finis
05 11:04:10 AM 192.168.1.240 Receive the image materials overtime.
05 11:07:03 AM 192.168.1.240 Receive the image materials overtime.
05 11:07:03 AM 192.168.1.240 Off-Line
05 11:07:05 AM 192.168.1.240 Connection succeeds
05 11:07:20 AM 192.168.1.240 Start recording
05 11:07:26 AM 192.168.1.240 Stop recording
05 11:08:55 AM 192.168.1.240 Start recording
05 11:09:01 AM 192.168.1.240 Stop recording
05 11:09:39 AM 192.168.1.240 Receive the image materials overtime.
05 11:09:39 AM 192.168.1.240 Off-Line
05 11:14:13 AM 192.168.1.240 Start recording
05 11:14:13 AM 192.168.1.240 Connection succeeds
05 11:14:22 AM 192.168.1.240 Stop recording
05 11:21:51 AM 192.168.1.240 Receive the image materials overtime.
05 11:21:51 AM 192.168.1.240 Off-Line
05 11:22:05 AM 192.168.1.240 Connection succeeds

Select the desired camera from the drop-down menu to display its log.

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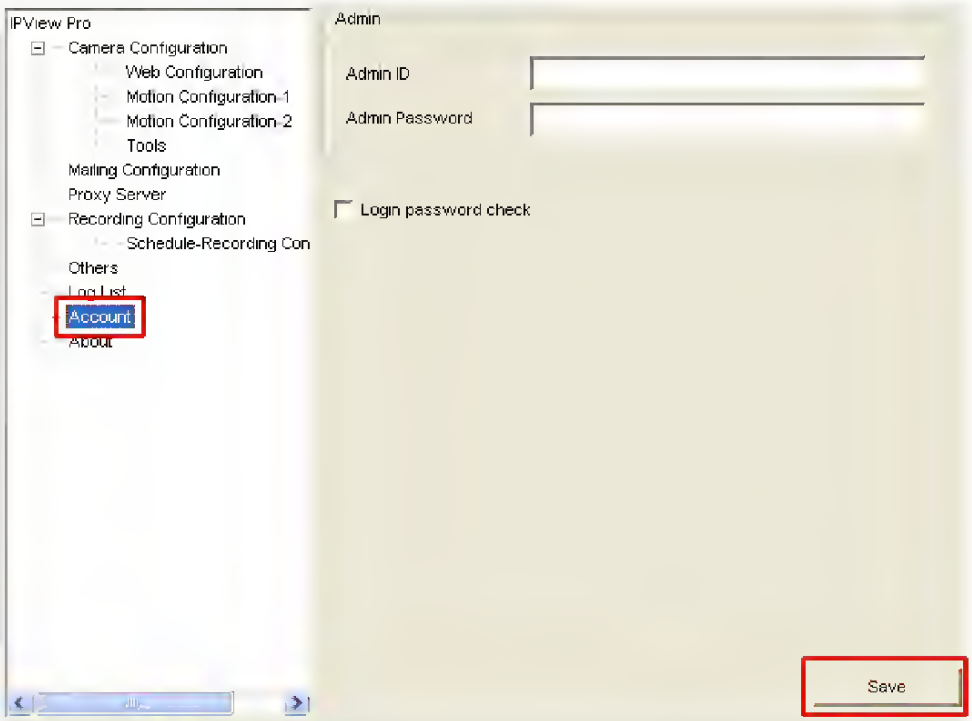
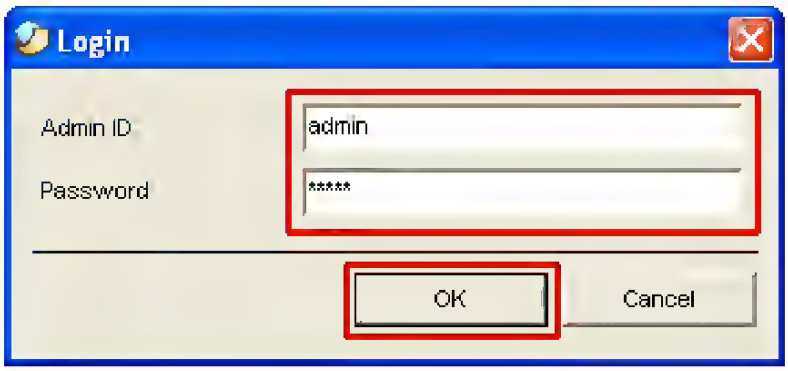
10.4.12 Account

The **Account** page allows you to setup a user name and password to log in to IPView Pro.



Enter the desired **Admin ID** and **Password**.

Login password check: Check this box to enable the login prompt when you start IPView Pro and when you unlock the **Key Lock** button.



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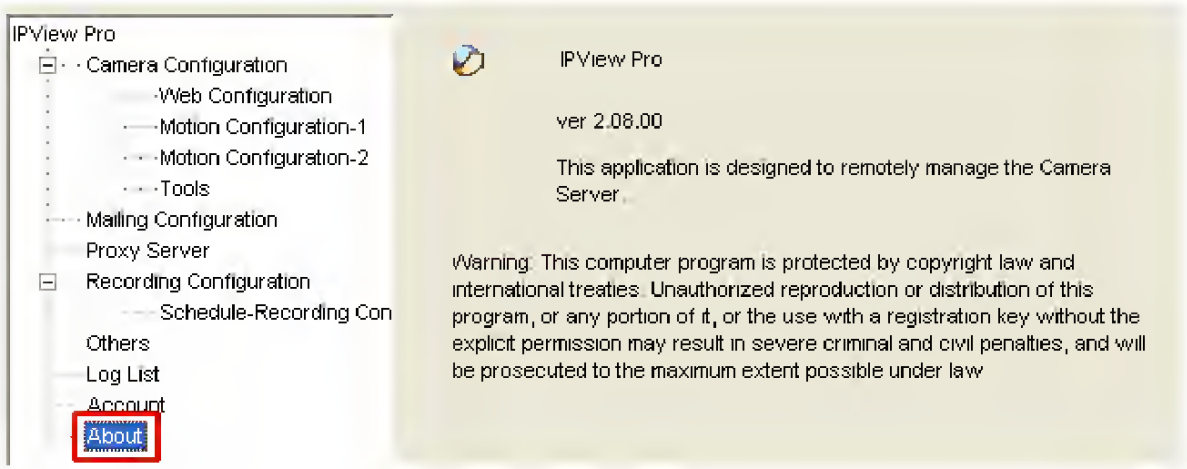
10.4.13 About

The **About** page provides the version number of IPView Pro.


IPView Pro
Camera Configuration
Web Configuration
Motion Configuration-1
Motion Configuration-2
Tools
Mailing Configuration
Proxy Server
Recording Configuration
Schedule-Recording Con
Others
Log List
Account
About
IPView Pro
ver 2.08.00
This application is designed to remotely manage the Camera Server.
Warning: This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, or the use with a registration key without the explicit permission may result in severe criminal and civil penalties, and will be prosecuted to the maximum extent possible under law

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11. Xplug Control

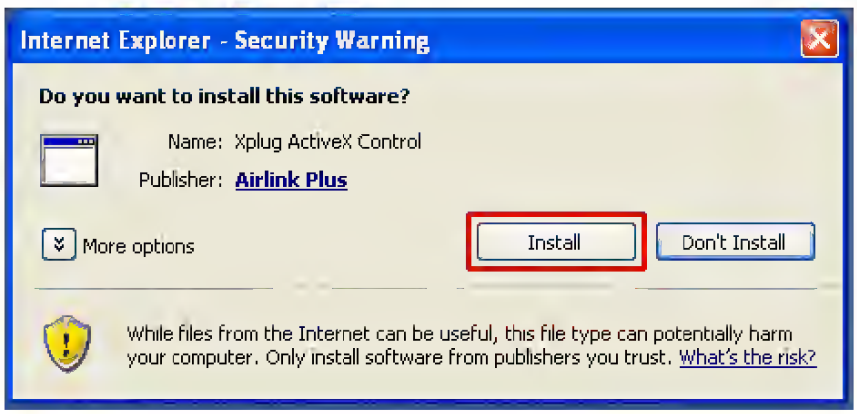
If you need to install/enable ActiveX for your web browser (Internet Explorer), please follow the steps below.

11.1 Installing Xplug Control

Step 1 At the Web Configuration screen, click on **View Video – ActiveX Mode**.

Note: *If you are able to see the video, you already have ActiveX installed and enabled. If you do not see the video, continue with the rest of the steps.*

Step 2 Click on **Install** at the prompt to install **Xplug ActiveX Control**.


Internet Explorer - Security Warning
Do you want to install this software?
Name: Xplug ActiveX Control
Publisher: Airlink Plus
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

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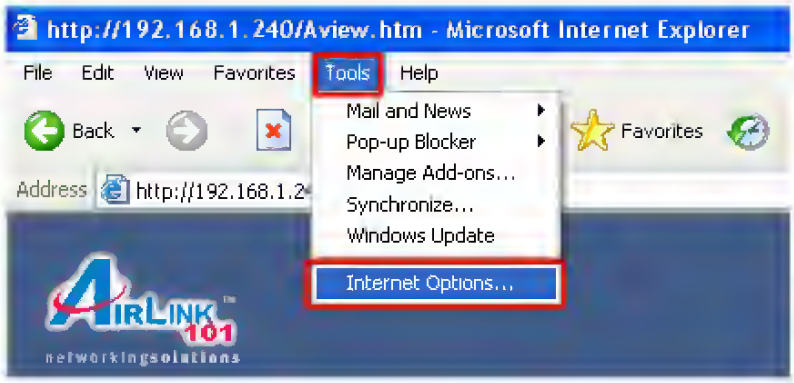
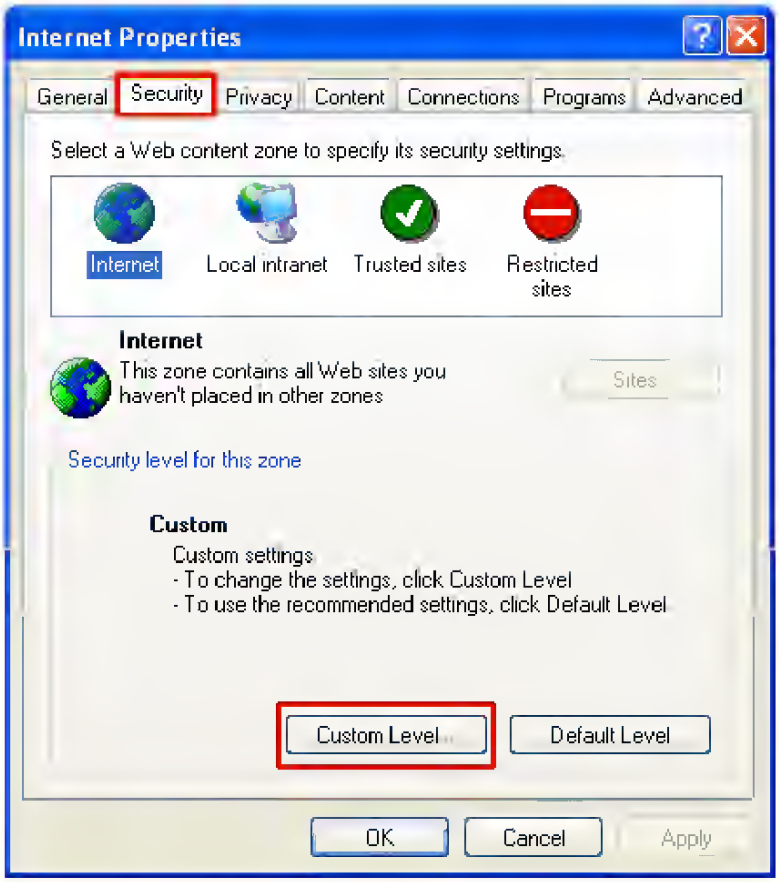
11.2 Enabling ActiveX

Follow the steps below to enable ActiveX on your Internet Explorer.

Step 1 Click on **Tools** > **Internet Options**.



Step 2 Select the **Security** tab and click on **Custom Level**.



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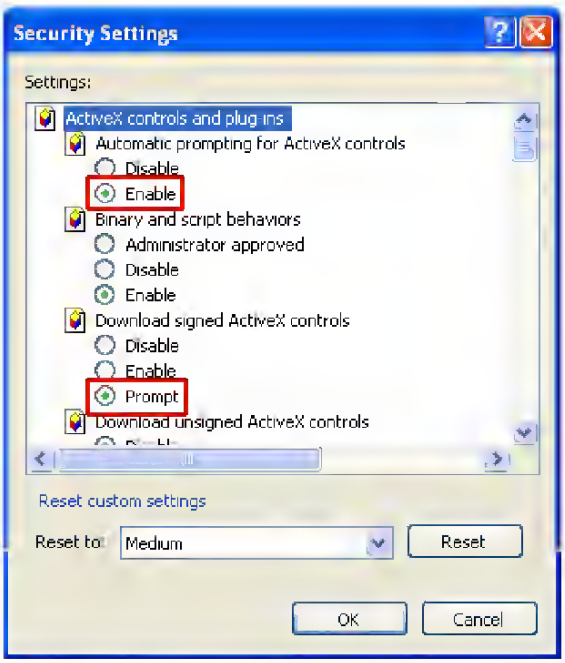
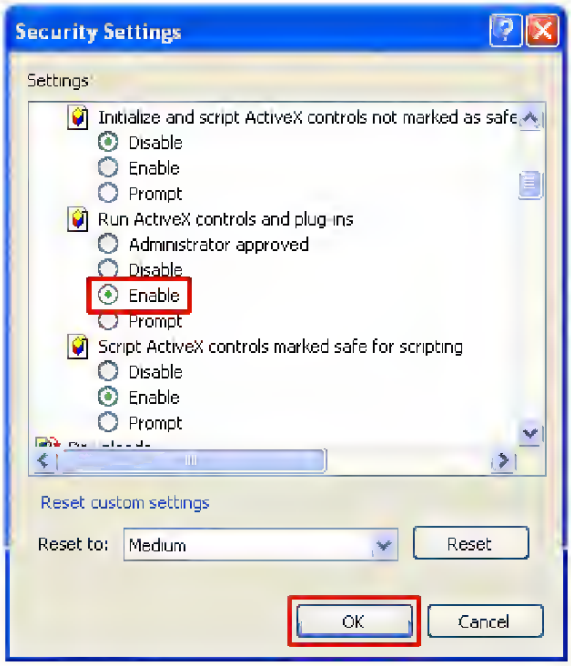
Step 3 Verify the following settings are enabled. Click **OK** when done:

- Automatic prompting for ActiveX controls: **Enable**
- Download signed ActiveX controls: **Prompt**
- Run ActiveX controls and plug-ins: **Enable**





Step 4 At the Web Configuration screen click on **View Video – ActiveX Mode.**

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Step 5 The video should appear now.

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Appendix

Sending Images via Web Browser

If you want to send images to an FTP server or an e-mail account through the web browser, follow the steps below.

Step 1 Go to the Camera's Web Configuration page and click on **System Administration**.

Step 2 Enter your username and password to log in. (Default is **admin** for both).

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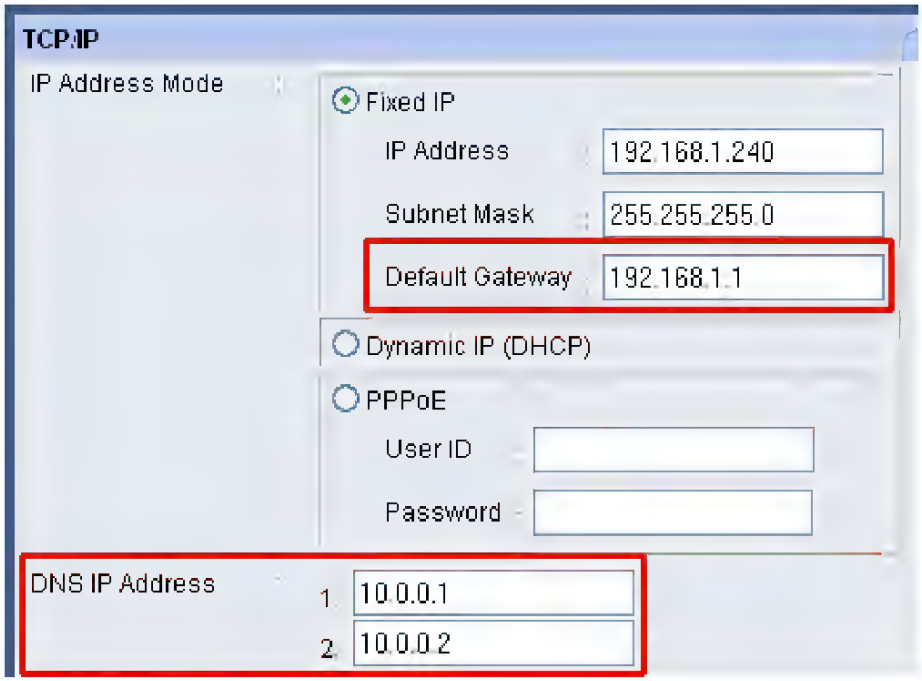
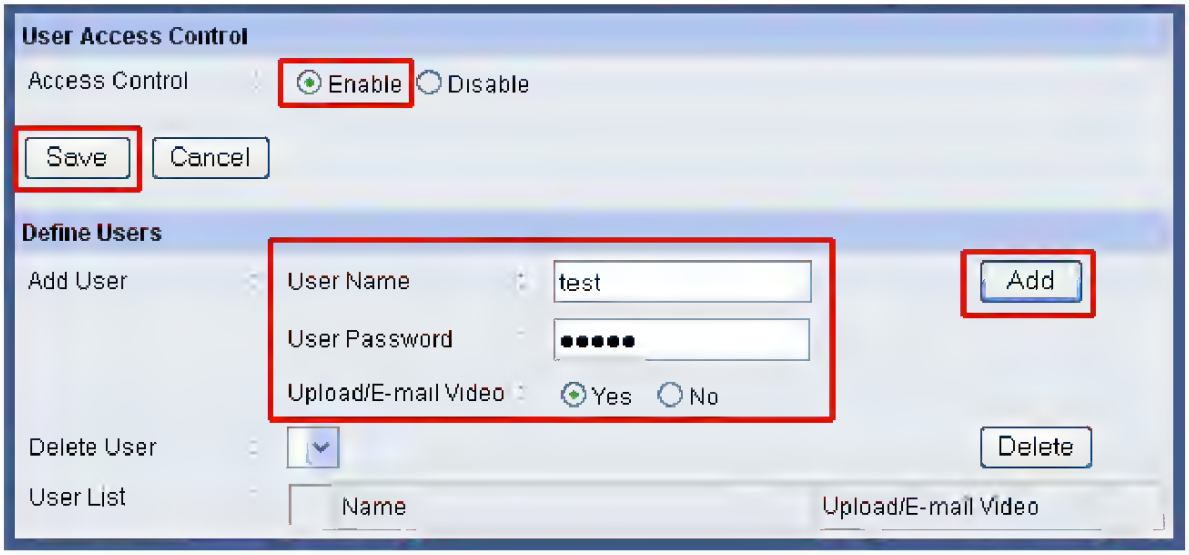
Step 3 Go to **Configuration – Network** and enter the IP Address of your Default Gateway and DNS Server. Click **Save** to apply the changes.



Step 4 Go to **Configuration – User** and enable the User Access Control and create a user account. Click **Save** to apply the changes.



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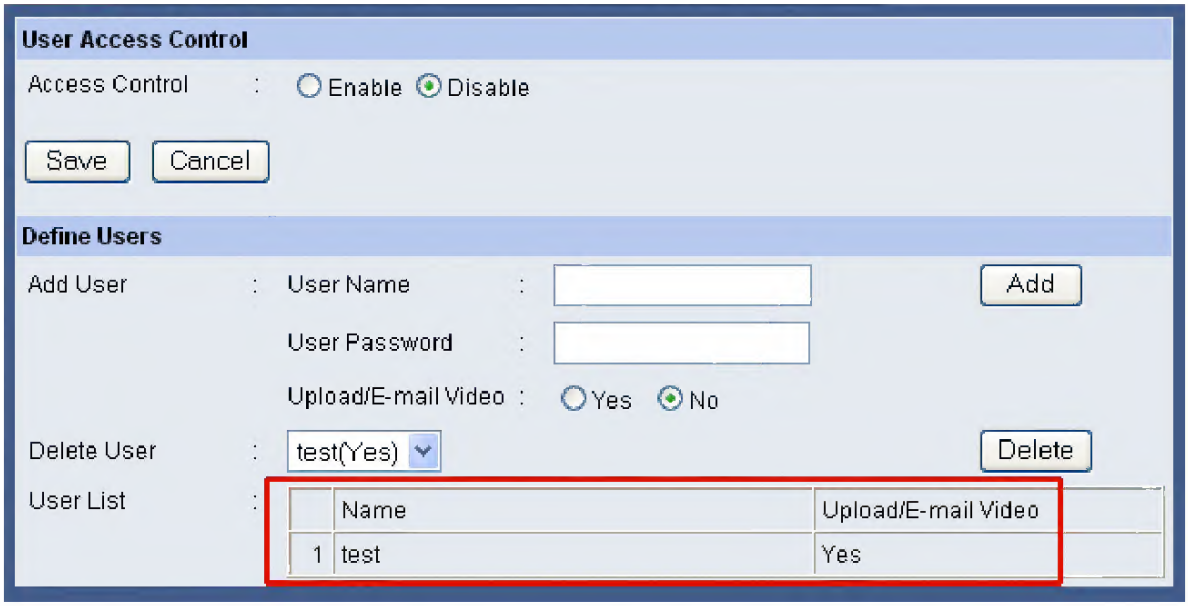
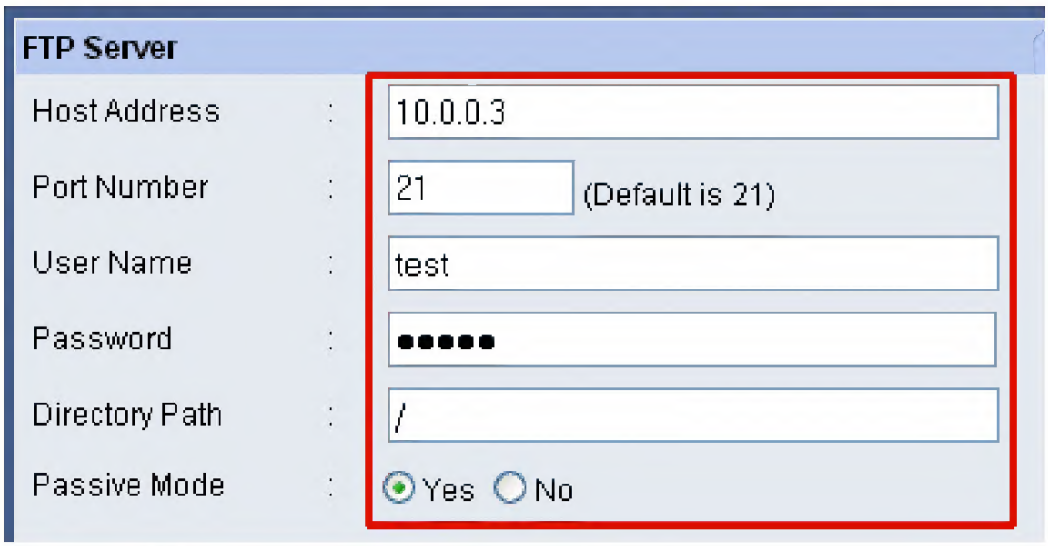
Step 5 Verify that the new user account is listed in the **User List**.



Step 6 Go to **Configuration – Upload** and enter your FTP Server information in the applicable fields.



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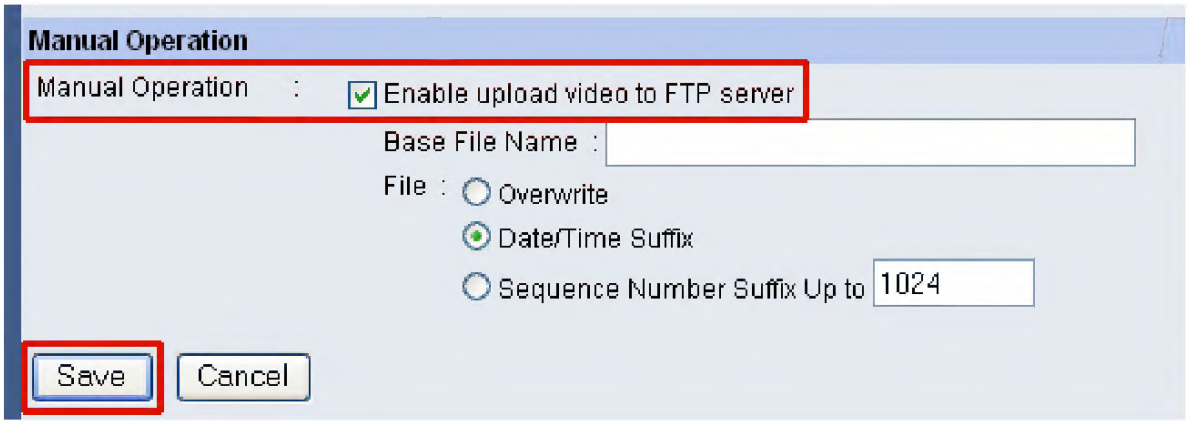
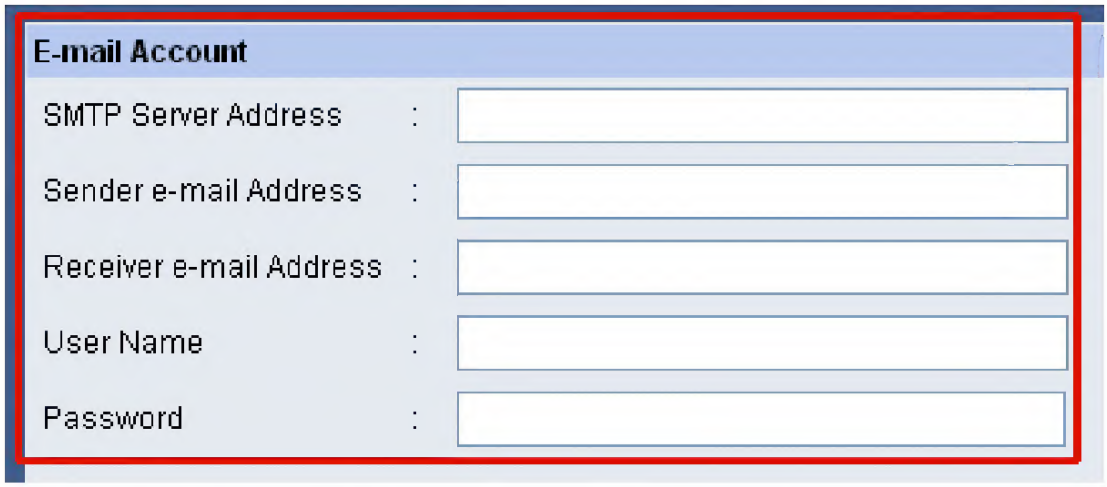
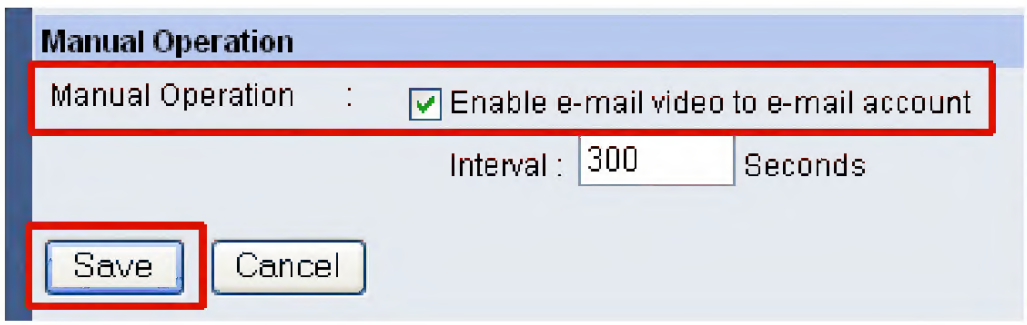
Step 7 At the bottom of the page, check on the **Enable upload video to FTP server** check box and click **Save** to apply the changes.



Step 8 Go to **Configuration – E-mail** and enter your E-mail settings in the applicable fields.



Step 9 At the bottom of the page, check on the **Enable e-mail video to e-mail account** check box and click **Save** to apply the changes.



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Step 10 Close the Web Browser and re-enter the Camera's Web Configuration Utility.

Step 11 You can now click on the **ON** buttons to send images to your FTP server and e-mail account.

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*Theoretical maximum wireless signal rate based on IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate.

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